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The CHEMIST AND DRUGGIST

for ***RETAILER - WHOLESALER - MANUFACTURER***

Established 1859 28 Essex Street, Strand, London, W.C.2 *Registered as a Newspaper*

No. 3057
VOL. CXXIX

SEPTEMBER 10, 1938

Annual Subscription (with Diary) 20/-. Single Copies 9d.

Macfarlan products

synonymous with purity

During over 150 years' close connexion with Drugs and the manufacture of Pharmaceutical Preparations, and specialization for over a century in the manufacture of Alkaloids and Anaesthetics, the House of Macfarlan has attained, by incessant scientific research and experiment, that high standard which has given its products a world-wide reputation for purity and reliability.

J. F. MACFARLAN & CO.

109 Abbeyhill, Edinburgh.
32 Bethnal Green Road, London.
Works:
Abbeyhill & Northfield, Edinburgh.

TRADE MARK REGISTERED

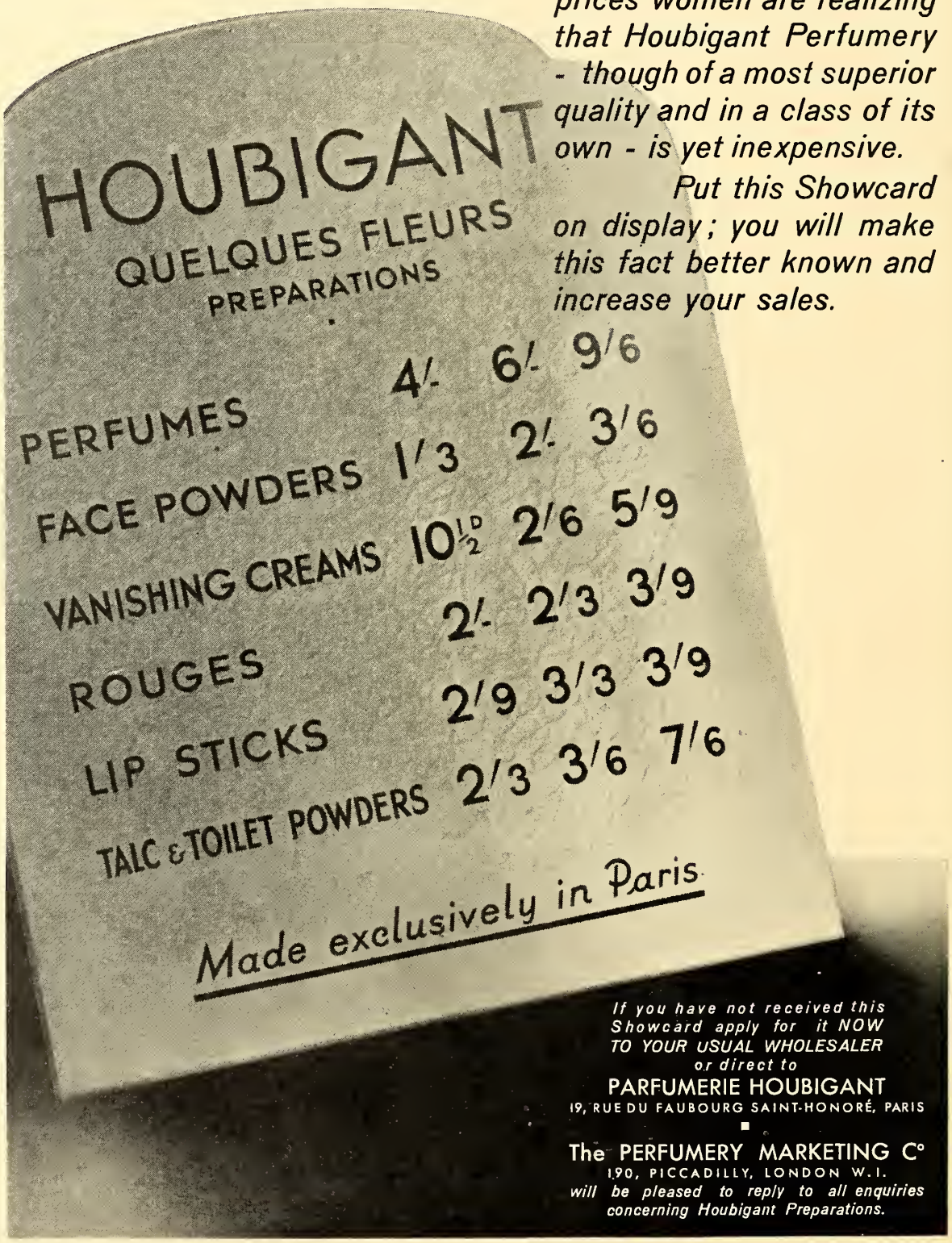
Established 1780

Index to Advertisers, pp. 5 & 6.

Have you received this showcard?

Thanks to reduced prices women are realizing that Houbigant Perfumery - though of a most superior quality and in a class of its own - is yet inexpensive.

Put this Showcard on display; you will make this fact better known and increase your sales.



If you have not received this Showcard apply for it NOW TO YOUR USUAL WHOLESALER or direct to

PARFUMERIE HOUBIGANT
19, RUE DU FAUBOURG SAINT-HONORÉ, PARIS

The PERFUMERY MARKETING C°
190, PICCADILLY, LONDON W.1.
will be pleased to reply to all enquiries concerning Houbigant Preparations.

BEAUTY

the centre of attraction

In every proprietary product beauty of line and colour in containers is recognised as the outstanding factor in sales.

U.G.B

CREATIONS

Radiate Charm

THE PERFECT PAIR • BOTTLE AND CLOSURE

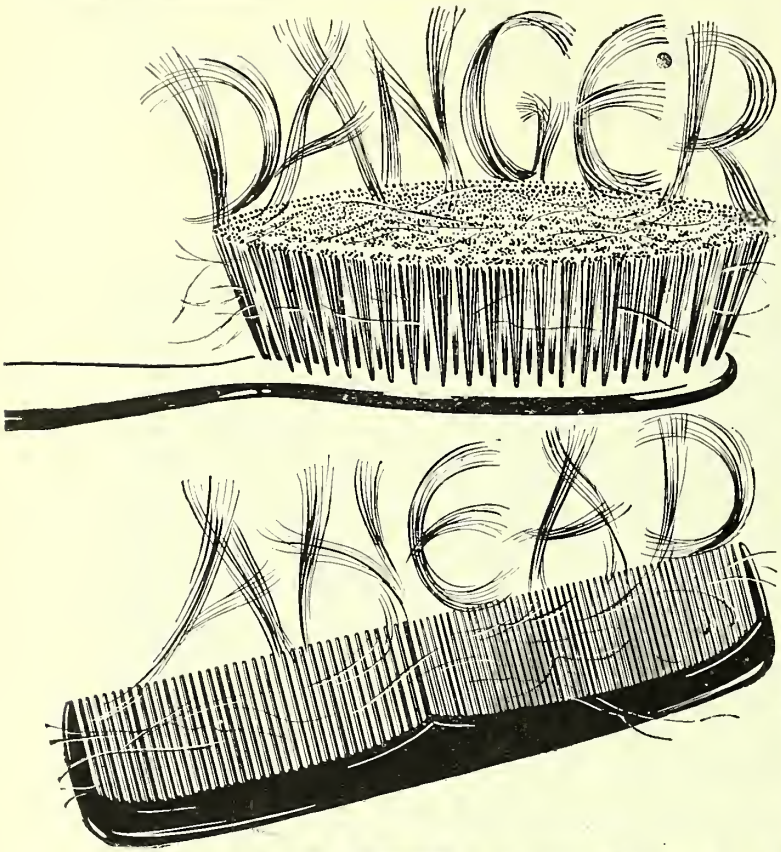
MANUFACTURED BY

UNITED GLASS BOTTLE
MANUFACTURERS LTD

The largest manufacturers of glass bottles in Europe

8 LEICESTER STREET, LONDON, W.C.2

Telephone : GERRARD 8611 (10 lines) **Telegrams : UNGLABOMAN, LESQUARE, LONDON**



YOU May Miss BIG BUSINESS

By Not Keeping Regularly Stocked with the Fast Selling

HARLENE

HAIR TOILET PREPARATIONS

BIG BUSINESS will come to those who regularly stock these regularly "asked for" lines. Order up a good stock **NOW** and thus make sure you will not disappoint customers in **your** locality.

KEEN ADVERTISING

offering a direct appeal to the Public, is the Keynote of a Bold and Regular Campaign in the National and Periodical Press.

New customers will be created — present business REACTIVATED!

Attractive Show Cards and full particulars are immediately obtainable on request to:

EDWARDS HARLENE LTD.

20/26 Lamb's Conduit Street London, W.C.1

Keep a Good Stock of

HARLENE

HAIR GROWER & TONIC

Cremex Shampoo
Uzon Brilliantine
Harlene Wave-setting Lotion
Astol Hair Colour Restorer
Harlene Camomile Golden Hair Wash
Harlene Camomile Shampoo
Harlene Golden Wave Set
Harlene Hair Cream
Harlene Soapless Brushless Shaving Cream
Harlene Scalp Ointment

The SPEARHEAD *of* SALES

WOMAN and BEAUTY is the foremost medium for selling cosmetics in this country today. It was the first magazine devoted to the cult of personal beauty and fitness. Each year it has grown in influence as well as circulation. In many retail stores it is an axiom to STOCK IT IF IT IS ADVERTISED IN WOMAN and BEAUTY.

This unique sixpenny monthly is the manufacturer's and distributor's greatest selling force; it shows the retailer what to stock and it educates the consumer in the uses of cosmetics, etc.

If you have not experienced its great pulling power, book space NOW and you will realise why WOMAN and BEAUTY carried more advertising than ever before.

Ann Seymour
The famous Beauty Expert & Editress of WOMAN and BEAUTY

CIRCULATION EXCEEDS
160,000 Monthly

•

Advertisement Rate
£65 Per Page
FIFTY - FIVE POUNDS ORDINARY POSITION

•

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or send for Specimen Copy to
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THE AMALGAMATED PRESS Ltd.
Fleetway House, Farringdon St., E.C. 4

WOMAN and BEAUTY

VISIT OUR STAND
No. D.16
AT THE
CHEMISTS' EXHIBITION

Royal Albert Hall
London, September
19th to 23rd

FOR DIGESTION
SLEEP & ENERGY

YOU CAN SAFELY RECOMMEND

Cadbury's

BOURN-VITA

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ALMOND OIL

THE FINEST QUALITY PRODUCED

STAFFORD ALLEN & SONS LTD

MANUFACTURING CHEMISTS

20-42 WHARF ROAD, LONDON, N.1

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SURE SALES... BIG PROFITS

OVER 40% FROM A GROWING 'MOORLANDS' PUBLIC

Enquire for CARTWRIGHTS quick selling Big Profit Winter Lines

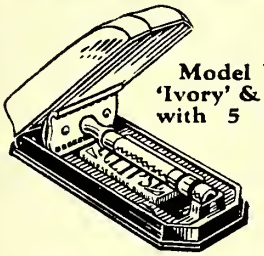
The Public will have

DISPLAY MOORLAND BRAND INDIGESTION TABLETS

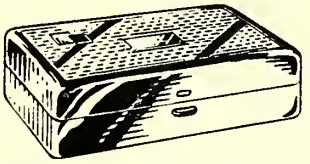
W. B. CARTWRIGHT LTD., RAWDON, LEEDS

New Packs – New Ads for Eclipse RED RING RAZORS

RETAIL PRICES

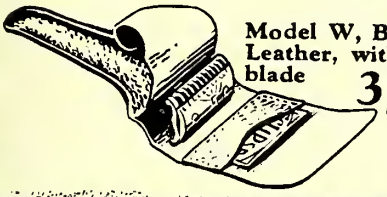


Model H.H. 'Ivory' & Black with 5 blades **6/6**



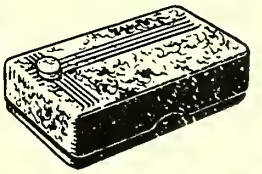
De Luxe Chromium Plated Case with 10 blades **10/6**

Model BB Mahogany coloured with 3 blades **4/6**



Model W, Blue Leather, with 1 blade **3/6**

BLADES
5 for 1/8 3 for 1/-



Model MM, Mottled Green, with 1 blade **2/6**

Putting more "Punch" into our advertising

Full pages in 'Punch', illustrated by well-known humorous artists, will feature the attractive range of 'Eclipse' Razor Packs at prices from 2/6 to 10/6.

'Eclipse' Razors possess unique selling points—automatic centering of the blade, micrometer adjustment, magnet in the handle to pick up Blades—all of which add satisfaction to shaving, as well as confidence in selling.

Write for price list to your usual wholesaler or direct to:

E.140

JAMES NEILL & CO. (Sheffield) LTD., SHEFFIELD, 11.

Private Formula

PILLS and TABLETS

Sugar coated
Pearl ,,
Enteric ,,
Silver ,,

BULK OR PACKED

Exceptionally keen prices

OUR PACKAGING DEPARTMENT IS AT YOUR SERVICE

Let us quote you for a Gross or Millions

COX

Estab. 1839
ARTHUR H. COX & Co. LTD
of BRIGHTON

ON THE AIR

AND IN THE NEWS

The new

HALEXERCISE

The Halexercise habit is spreading—and Halex sales going up. The newspapers, radio, the influential magazines, all tell *your* customers to carry National Fitness one stage further and Halexercise too—and everyone's doing it, twice a day. They'll buy their Halex toothbrushes from *you*—order more Halex now.

BIGGER CAMPAIGN HELPS YOUR HALEX SALES

PRESS

The Daily Mirror and Daily Sketch have been added to the newspapers carrying Halex advertisements.

MAGAZINES

Radio Times, Everywoman's, Passing Show—a long list of the magazines people read more than once are used by Halex.

RADIO

Popular comedian Joe Murgatroyd now puts Halex on the air twice a week from Radio Normandy (wave length 212.6 m.).

IT'S DOING GREAT THINGS FOR YOUR SALES OF

HALEX

Regd. Trade Mark

TOOTHBRUSHES

MADE IN ENGLAND

Order from your usual wholesaler, or from

THE BRITISH XYLONITE CO. LTD., HALE END, E.4

PINAUD

A LA CORBEILLE FLEURIE

Visit our Stand No. **L 40**

HAIR AND BEAUTY FAIR

OLYMPIA

September 20–29, 1938

when we shall be pleased to give you information on our New Prices and Christmas Gifts

PINAUD Ltd. 128 ATKINS ROAD LONDON. S.W.12

DO THEY *pass by* YOUR WINDOW?

Day and night NUFIX National and local advertising — Press — Posters — Buses — Trams — Skysigns — Window Display—is making new customers for you—men who pass your window every minute —every day.

NUFIX SALES FOR JULY BEAT ALL RECORDS and still they go up!

Get this extra trade by showing NUFIX in your window and saloon—don't let it go by!

STOCK AND DISPLAY

NUFIX

THE FAULTLESS HAIR DRESSING

Walden & Co. (Nufix) Ltd., Nufix Works, Rookery Way, N.W.9

CALVERT'S 'AIRFLOW' FLASK

An Ideal Pack for Every Purpose

- So convenient
- Cannot spill
- Simple to use
- Profitable to sell

This Ingenious new container, recently introduced by Press and Radio advertising, makes Calvert's Tooth Powder, always the finest cleaner, now the most convenient to use.

Retail 1/- each.
List Price: 8/- per doz.
Your usual Wholesaler stocks it.

F. C. CALVERT & Co. Ltd. - Manchester, 11

WORLD'S HEADQUARTERS FOR

SPONGES

INTERNATIONAL SPONGE IMPORTERS, LIMITED

CRESSWELL BROS. BRANCH,

18 and 19 Red Lion Square, LONDON, W.

CHEAPEST HOUSE for Sponges & Chamois Leathers

WRITE FOR ILLUSTRATED PRICE LIST.

USED AND SOLD THROUGHOUT THE HAIRDRESSING TRADE

BIOCRIN Regd. **POMADE SHAMPOO TREATMENT**

JARS - 21/- & 33/- PER DOZ.
RETAIL - 2/9 & 4/6 EACH

BIOLOGICAL OIL HAIR-DRESSING

BOTTLES 19/- & 34/- PER DOZ.
RETAIL - 2/6 & 4/6 EACH

VINE'S

222/4 Harrow Rd.
PADDINGTON,
LONDON, W.2
ABErcorn 1172
(2 lines)

SOUTHALLS SAN TOWELS

WRAPPED in plain brown paper parcel — with carrying string and . . . PACKED IN CARTONS for you to display.

"CELTEX" SOLUBLE

6 for 6d. and 12 for 1/- 1/2 · 1/6 · 2/-

ALSO MAKERS OF 'ORIGINAL' & 'K' SAN TOWELS

Californian Poppy

A GRAND PERFUME IN A GRAND PIANO

— a most harmonious note!

Here is the most popular novelty of all the 1938 Christmas lines in the Californian Poppy range — a miniature grand piano, moulded in high-grade plastic material, containing a dainty bottle of perfume. There is a big demand for this most original and attractive gift, so order *now* and your customers won't be disappointed.

GIFT No. 0738 **RETAIL PRICE 1/9**

Hurry – get in your Christmas stocks now!

ANOTHER CERTAIN SELLER

This gift is sure to be popular, too. It's a gaily decorated case in green, red and gold, containing Californian Poppy Perfume, Face Powder and Vanishing Cream.

GIFT No. 0338 **RETAIL PRICE 2/6**

Write for our illustrated list of gift packs at prices to suit all purses. These colourful packs make a fine display in your shop—they sell themselves.

PROPRIETARY PERFUMES LIMITED

35A SOUTHWARK PARK ROAD, S.E.16

PPT 6-146-100

Introducing—

'PROPHICS'

A latex contraceptive of exceptional quality that you can handle, sell and recommend with confidence.

Beautifully packed in attractive gold boxes of three, and in one gross outers suitable for display purposes.

Retail Price: 2/6 PER BOX OF 3

Costs: 2/6 Per doz. (4 Boxes of 3)
30/- Per gross (48 Boxes of 3)

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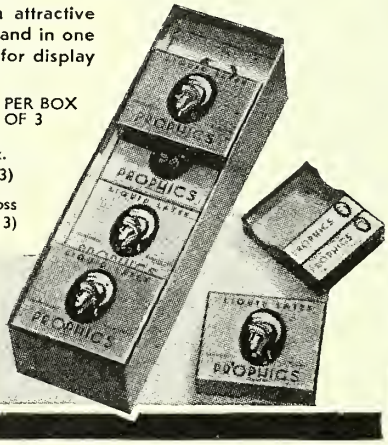
Sole Agents for the United Kingdom :—

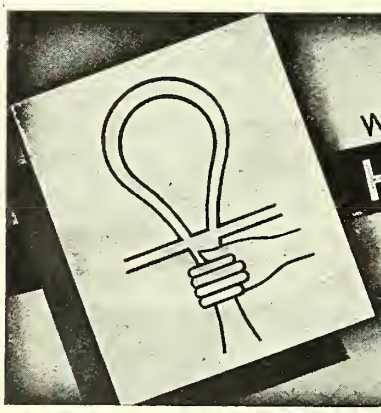
D. MAWDSLEY & Co.
RIGA STREET
MANCHESTER, 4



For PARTICULAR PEOPLE

For use with Sanitary Towels as a DEODORANT and to prevent chafing. It neutralises body odours at once.

ORDER FROM YOUR WHOLESALE HOUSE



WHOLESALE & EXPORT ONLY

HYPODERMIC NEEDLES

OF ALL DESCRIPTIONS

Original makers of
STAINLESS STEEL NEEDLES
OUR SPECIALITIES INCLUDE THE ORIGINAL RECORD FITTING AND N.H.I. SPECIFICATION HYPODERMIC NEEDLES.
Comprehensive catalogue sent on request.

S.&R.J. EVERETT & CO., LTD.

939, LONDON ROAD, THORNTON HEATH, LONDON, S.W.16

Caradium
HAIR RESTORER

The Recognised Preparation for Restoring Grey Hair. IT IS NOT A DYE

CARADIUM enjoys a wonderful popularity with the Public as a unique preparation that is really SAFE and EFFECTIVE for restoring the colour to grey or faded hair. It contains radio active water that ensures success when other treatments fail.

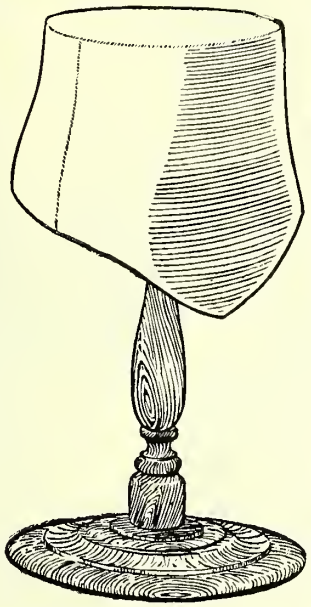
CARADIUM is NATIONALLY ADVERTISED. Make sure you have sufficient stocks of this seller.

Retail prices 4/- and 7/6. Wholesale, 25% allowed on ½ Dozen and over.

CARADIUM REGD., 38 GT. SMITH STREET, WESTMINSTER, LONDON, S.W.1

The House of Heward

This famous House of Surgical Appliance Specialists for almost a quarter of a century extend yet a further aid to bigger sales with their attractive Display Stands that silently and efficiently work for you and save your time while customers examine at leisure. Among them is this attractive model in delicate pink satin with light oak unvarnished pedestal base which will enhance the appearance of every belt it displays.



21/-
COMPLETE WITH BELT

The R. H. Heward Co.
CROWN ROAD WORKS
TWICKENHAM
'Phone: POPESGROVE 2243/4
'Grams: BELTRUSS, TWICKENHAM

SURADS

Your lady customers have confidence in HOSEZENE products

Over 40 years' reputation for superior quality and reliability ensures steady sales for HOSEZENE Towels.

PERFECT—with the knitted cover and loop ends. Retail at 1/- and 2/9 per dozen

SOLUBLE—packed in cartons of one dozen to sell at 1/- to 1/6 per dozen Has no equal for easy disposal.

COMPRESSED—in great demand for holidays and travelling. In cartons of one dozen to retail at 1/3 to 2/3 per dozen.

Free Samples and terms on application to the manufacturers.

Hosezene Sterilized **ACCOUCHEMENT SET** meets a very definite need for a complete outfit of guaranteed first quality goods.

BRITISH MADE BY

SANITARY TRADE HOSEZENE MARK TOWELS

THE HOSEZENE CO., LTD., NOTTINGHAM

McClure, Young
AND COMPANY LIMITED

PREMIER PACKED DRUG HOUSE

90 STANDARD ROAD, LONDON, N.W.10

will be exhibiting as usual at the

CHEMISTS' EXHIBITION

STANDS No. 10, 11 and 12 BLOCK "C"

A full range of Packs in all labels, together with new lines and a complete set of Christmas Gift Novelties will be on show.

The Directors hope to meet many of this year's new customers to consolidate friendships of many years standing.

We suggest it may be to your advantage to send for a new catalogue and special coloured Christmas Gift list beforehand.

Admission tickets will be gladly forwarded.

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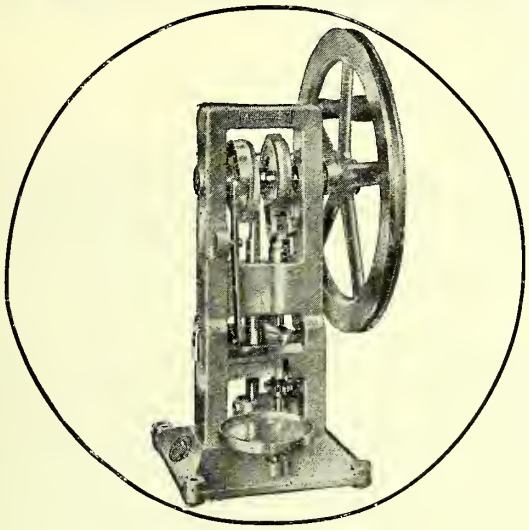

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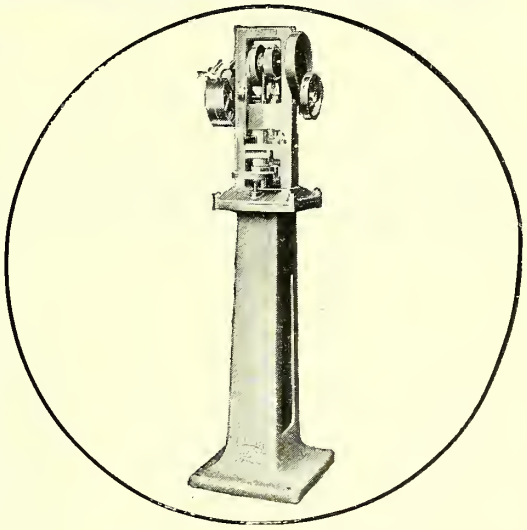

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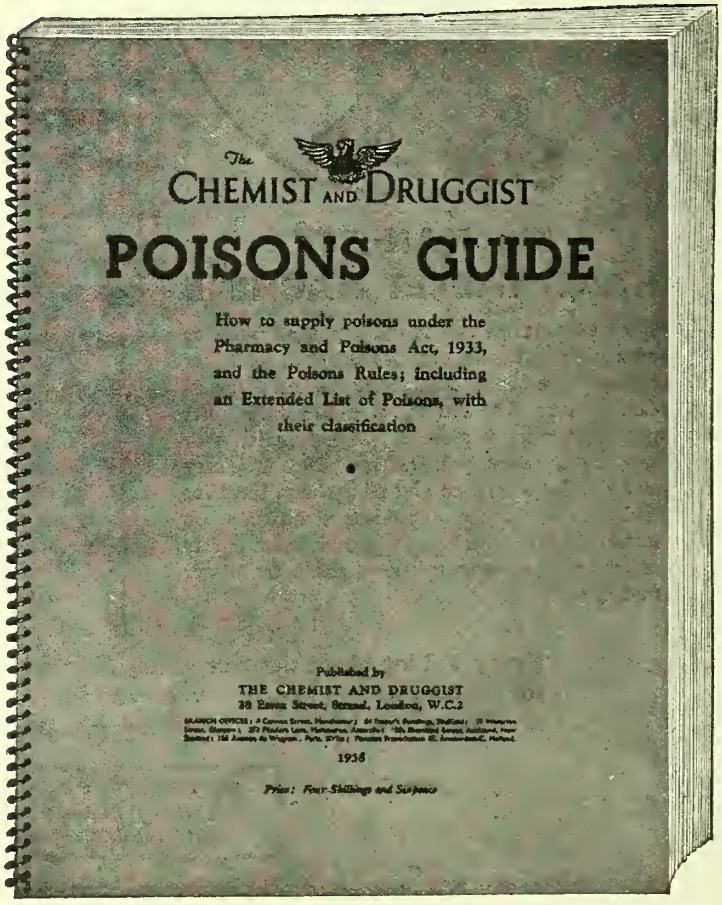

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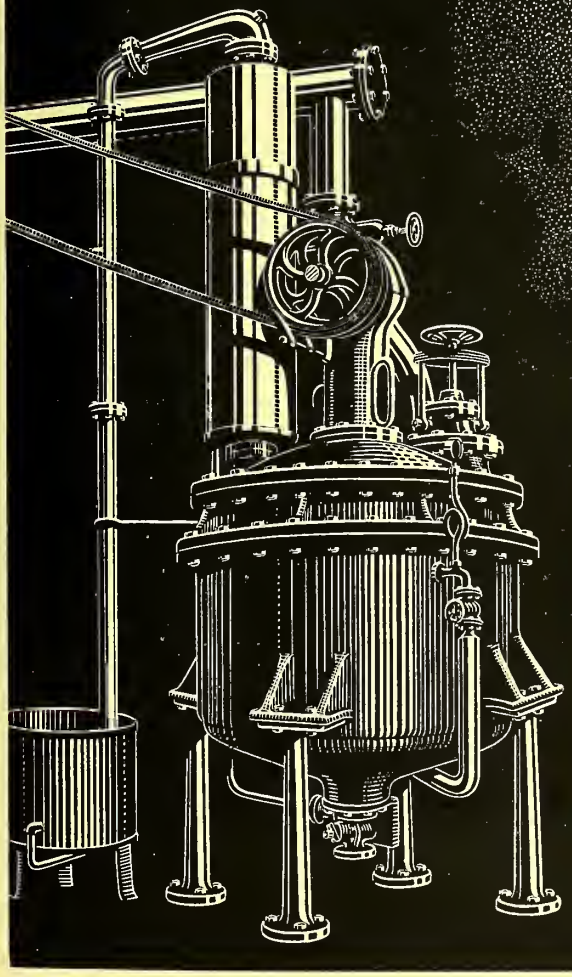

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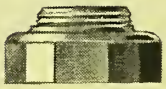
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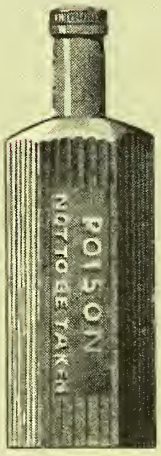

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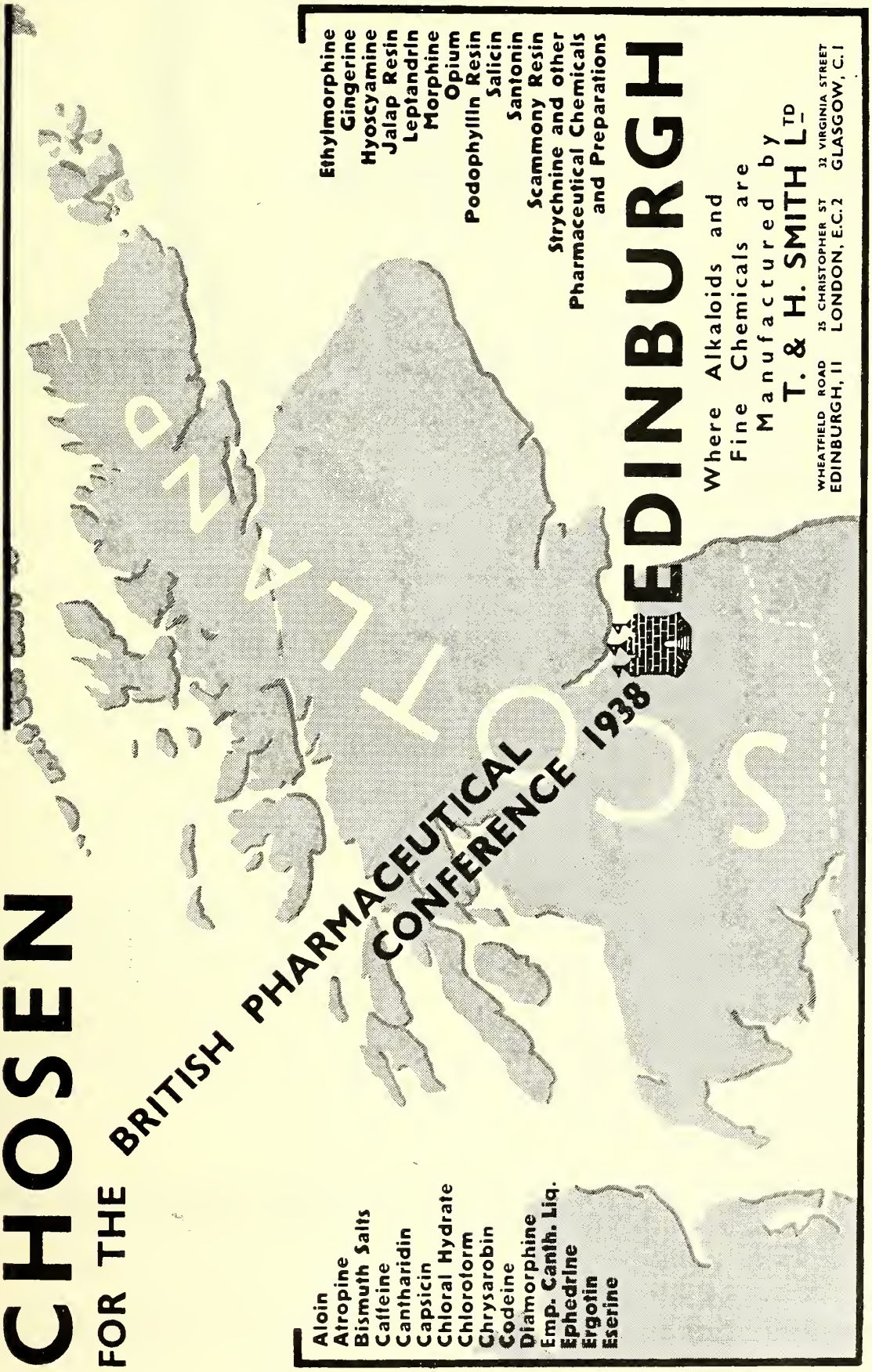

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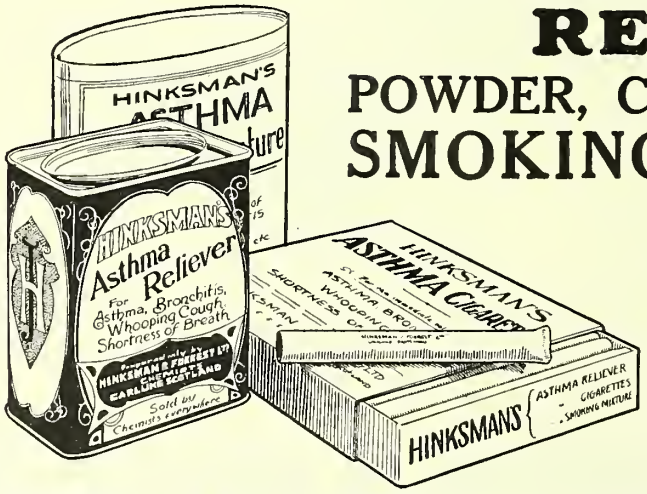

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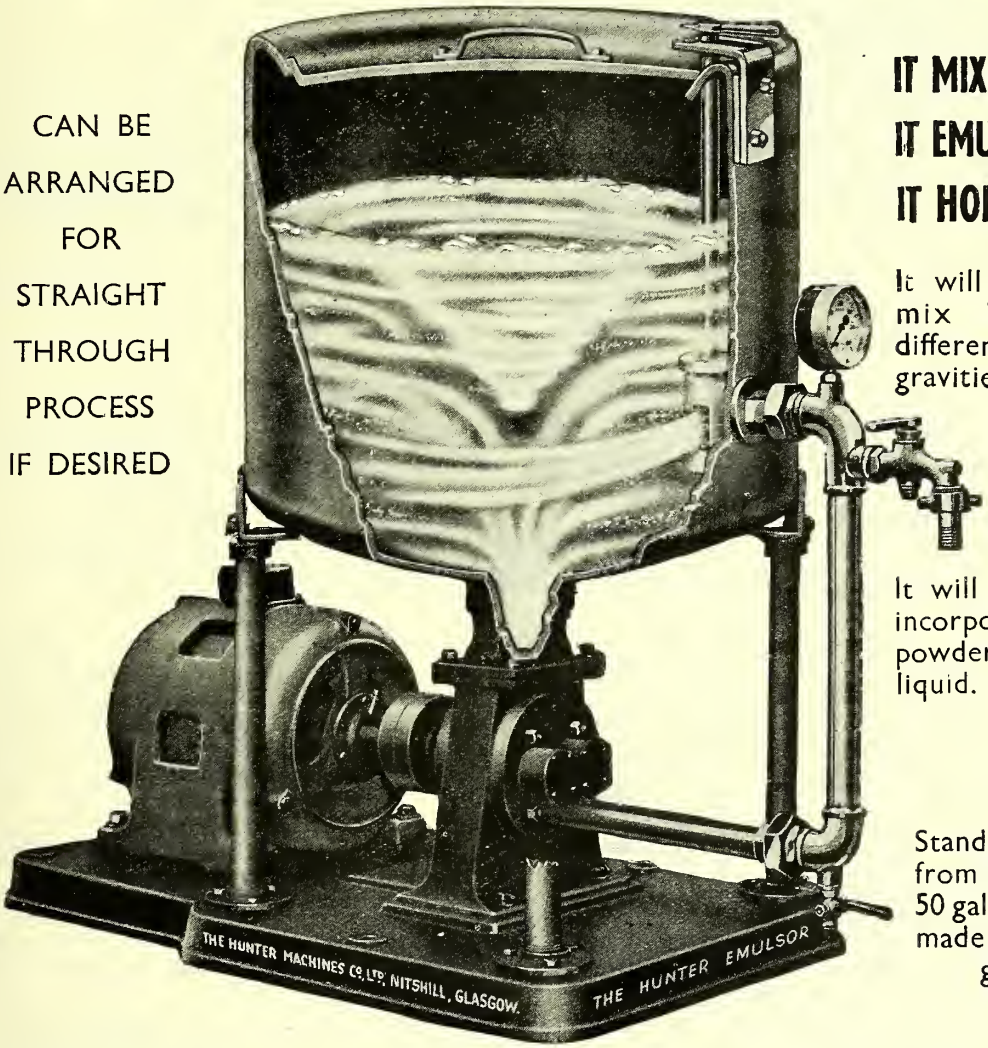

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It will thoroughly mix liquids of different specific gravities.

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Standard sizes from 2 gallons to 50 gallons can be made up to 500 gallons.

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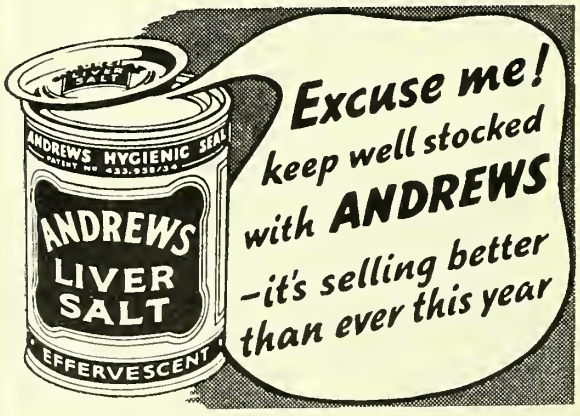

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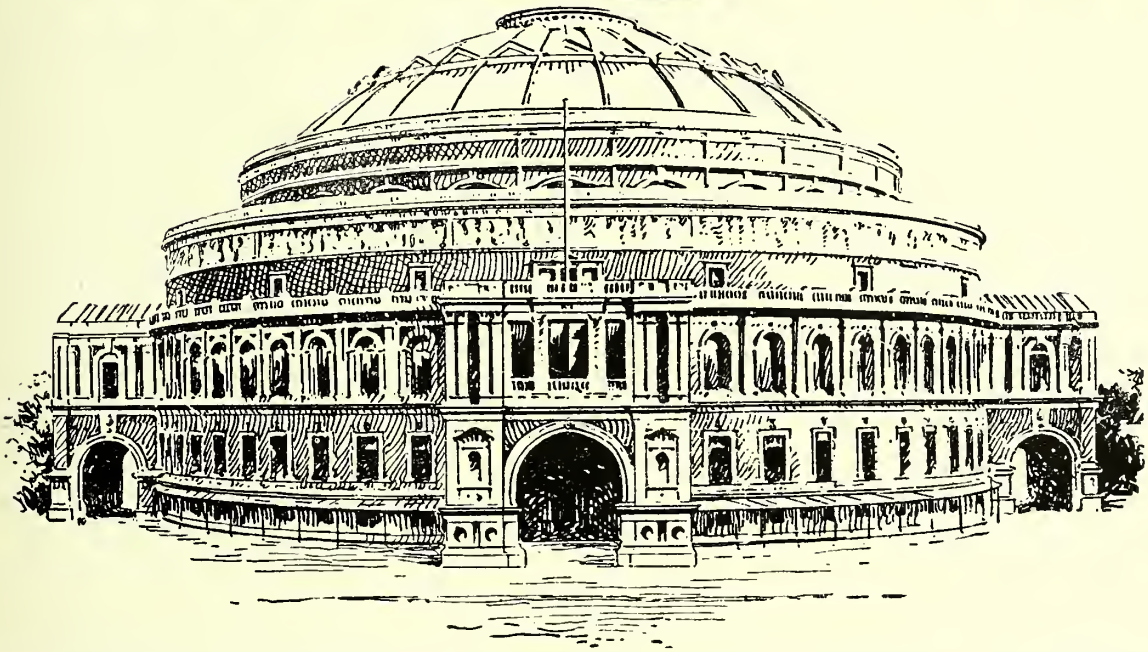

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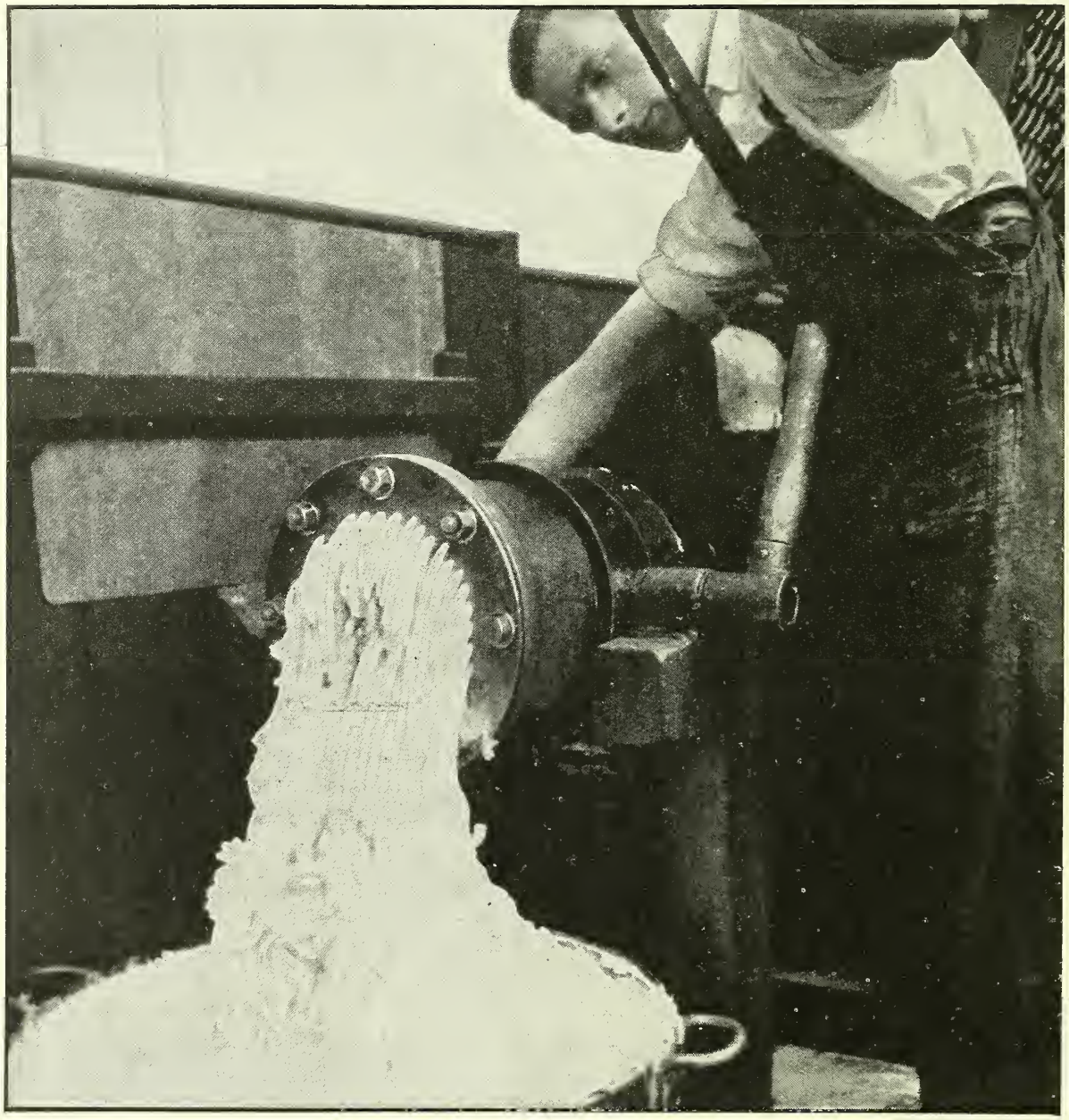

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*These varieties may only be sold in Great Britain by a Chemist or registered apprentice under P.J.F. restrictions

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News of the Week

Geneva Cross

Section 1 of the Geneva Convention Act has been extended to the Channel Islands by a recently issued Order-in-Council (S.R. & O., 1938, No. 765. H.M. Stationery Office, 1d.). The powers vested in the Board of Trade by the said Section are vested in the Royal Court of Jersey, or the Royal Court of Guernsey, as the case may be.

Dyestuffs Advisory Licensing Committee

The Board of Trade has re-appointed Mr. Peter Caldwell, Mr. D. R. Mackay, and Professor James Kenner, Ph.D., D.Sc., F.R.S., to be members of the Dyestuffs Advisory Licensing Committee for a further period of three years. The Board has also appointed Mr. G. E. Holden, O.B.E., to be a member of the Committee for a period of three years.

Business Changes

MR. JOHN NEWTON HAYBALL, M.P.S., has taken over the business of Mr. E. W. Butler, M.P.S., 265 Cleethorpe Road, Grimsby.

YARDLEY & CO., chemists, have opened new branch pharmacies at 277 Preston Road, Wembley, and 373 Fore Street, Edmonton, London, N.9.

Bakers' and Confectioners' Exhibition

The trade show of the bakers and confectioners, correctly the Bakers', Confectioners' and Allied Traders' Forty-Second International Exhibition and Market, which opened at the Royal Agricultural Hall, Islington, London, N.1, on September 3 and closes on September 9, is without doubt one of the best supported exhibitions of the London "season." This applies to both exhibitors and retailers, and this year there was perhaps a larger influx of "small" retailers than in most years, owing to recently introduced legislation which may involve many traders in the purchase of new apparatus. A pharmacist cannot but be impressed by the extent to which essences, colours, concentrates and chemicals enter into the industry. Prominent among such stand-holders were BLACKWELL, HAYES & CO., LTD., who showed (among a variety of bakers' sundries) essences, food colours, cream of tartar, oil of lemon and lemon flavour, and two specialities, Fermo-lac and Fermo-malt. Liquid and dry malt extracts were featured by the BRITISH DIAMALT CO., LTD., the ENGLISH GRAINS CO., LTD. (who also showed a speciality Yestose), and others. Health food products were to be found at the stands of the CRIMONY CO., LTD. (health rusks), PROCEA PRODUCTS, LTD. (starch-reduced bread and hydrated gluten), and others. At a stand which included a completely equipped bakery and shop, THOMAS HEDLEY & CO., LTD., were staging continuous demonstrations of the use of branded fats in the preparation of pastry and cakes. As might be expected, exhibits of machinery were prominent, and included giant automatic bread-makers (BAKER, PERKINS, LTD.); sifting, mixing, spraying, drying and elevating plant (WILLIAM GARDNER & SONS (GLOUCESTER), LTD.); filling machines (JOHN P. JACKSON & CO., LTD.); and weighing and packing plants (SOUTHALL & SMITH, LTD.). The shop-keeping side of the business was equally well represented, and out of numerous exhibitors of shop fittings, display and wrapping requirements and cash systems may be mentioned J. C. KING, LTD. (showcases, counters, fixtures, display materials and automatic models); JOHN GOSHERON & CO., LTD. (fancy tapes); and the NATIONAL CASH REGISTER CO., LTD. (cash registers, including a new machine that enables a person authorised to "cash up" to make a written declaration of the amount of cash in the cash-drawer before he knows the total of cash "rung up" on the register). Competitions were, as usual, numerous and well supported.

Hull

CHEMISTS AND A.R.P.—Mr. G. Baslington (Hull Corporation Air Raid Precautions organiser) addressed members of Hull Chemists' Association on August 30. After dealing with the precautions being taken for local defence, he discussed the position of pharmacists in the Corporation's scheme. He stressed the need for suitable instruction for air-raid wardens, and felt that chemists were suitable people to undertake that work. Other useful work could be done at first-aid posts and as gas decontamination officers. Following a discussion, thanks were proposed by Mr. L. S. Selle, seconded by Mr. E. A. Brocklehurst.

PHOTOGRAPHIC COMPETITION.—In a photographic competition organised recently for members of the Hull Pharmaceutical Students' Association, the following were successful: *First prize* (2½ guineas), Mr. G. B. Drummond ("The Market Hall"); *second prize* (1½ guineas), Mr. A. J. Snowden ("Portrait"); *third prize* (1 guinea), Mr. B. Foster ("Lake"); *fourth prize* (developing and printing outfit), Miss N. Clegg; *consolation prizes*, Mr. L. W. Booth ("Sunshine and Shadow") and Miss M. Stansfield ("Hampton Court"). Mr. E. J. Andrews (secretary, Photographic Dealers' Association), who arranged the judging, stated "some of the entries show considerable thought on the part of the photographer and there is evidence of a desire to take first class pictures and a knowledge of the methods to be employed." The committee responsible for the arrangements consisted of the Misses M. F. Stansfield and J. Westwood, Mrs. Trowill, M.P.S., and Messrs. Williams, Hindle and R. Holder, with Mr. D. E. Davies as secretary.

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London

EDUCATIONAL FILMS.—Students in the summer revision class at the London College of Pharmacy were shown two films from the repertory of Bayer Products, Ltd., on September 6. The first dealt with the preparations of antitoxins and the second—a "talkie"—with the nature of the blood.

EVENING CLASSES.—Details of the evening courses of study for the coming winter session available in the department of chemistry at the Hackney Technical Institute, Dalston Lane, E.8, have just been issued. Among the courses of special interest to pharmacists and pharmaceutical students are lectures and classes in the following:—Chemical works practice; chemistry of essential oils and perfumes; modern cosmetic manufacture. Information regarding these courses should be obtained from the principal of the Institute.

Miscellaneous

PHARMACY ACT CASE.—At Birmingham, recently, Mr. J. E. Adams, M.P.S., Acock's Green, was fined £2 in connexion with the sale of a poison other than by or under the supervision of a registered pharmacist.

INQUEST.—A verdict of suicide while the balance of his mind was disturbed was returned at an inquest upon Norman Wyeth, Redhill, on September 7. Death had resulted from cyanide poisoning. The coroner commended the chemist (Mr. P. W. Rowe, M.P.S., 26 Ridgemount Avenue, East Croydon) who supplied the potassium cyanide—"for destroying a wasps' nest"—for coming forward after seeing a report in the Press.

LONG SERVICE AWARDS.—Presentations have been made to the following members of the staff of Burroughs Wellcome & Co. to commemorate the completion of twenty-one years' service. At head office: Miss I. R. Barrett, an oak draw-leaf dining table; Miss W. B. Lyne, a walnut chiming clock; Mr. A. W. Honnor, a wrist watch; at the Wellcome Chemical Works: Miss I. M. Green, a walnut chiming clock; Mr. A. J. Joyce, a mahogany chiming clock; Mr. R. N. Fox, a silver cigarette case; at the Wellcome Physiological Research Laboratories: Miss R. V. Standing, an electric clock; Miss E. E. Standing, a gold wrist watch.

Irish Notes

Pharmaceutical Society of Northern Ireland

Nominations in connexion with the annual election of the Council of the Pharmaceutical Society of Northern Ireland take place at the Society's headquarters, University Street, Belfast, on September 9. The four retiring pharmacist representatives are Messrs. J. E. Connor, J.P., James Glendinning, H. F. Moore, and James McDowell, all of whom intend to come forward again. So far no other candidates have been mentioned. None of the druggist representatives retires this year.

The monthly meeting of Council will be held in Belfast on September 9. The meeting has been put forward a week to enable the president and members to attend the British Pharmaceutical Conference in Edinburgh. The agenda includes consideration of the examiners' reports and fixing of the time of the annual meeting of the Society.

Irish Drug Association

Mr. P. A. Brady (president) occupied the chair at the fortnightly meeting of the committee of the Irish Drug Association, held on August 22. It was reported that the Irish Master Hairdressers' Guild had complained they were unable to obtain supplies of many toilet preparations from certain wholesalers, due to the Association's activities, and requested that instructions should be given to these firms to supply hairdressers. The committee decided that the Association could give no such instructions, and noted with satisfaction the co-operation shown by the wholesalers in question. A letter was received from the Irish Union of Distributive Workers and Clerks asking that a joint deputation from the chemists' branch of the Union and from the Irish Drug Association should approach the Ministry of Industry and Commerce with a view to having the closing hours of pharmacies in the greater Dublin area regulated by law under the Shops (Hours of Trading) Act, 1938. It was decided to leave this matter in abeyance.

Pharmacy Act Prosecutions

At Rathdrum District Court, on September 1, William Morrissey, Aughrim, was summoned at the suit of the Pharmaceutical Society of Ireland for keeping open shop for the sale of poison, he not being legally qualified, and was further summoned for selling arsenic in sheep dip without making a proper entry of the sale. A fine of £5 was imposed on the summons under the Pharmacy Act, and the second summons was marked "no rule."—Thomas F. Phelan, merchant, Aughrim, was summoned for keeping open shop for the sale of poison; secondly with selling a package of sheep dip which had not the name and address of the seller, and thirdly for selling corrosive sublimate. Mr. James J. Kerr (registrar, Pharmaceutical Society of Ireland) stated that under no circumstances had a merchant holding a County Council licence authority to sell corrosive sublimate. County Council licences restricted sales to articles which were poisonous by reason of their containing arsenic, tobacco, or the alkaloids of tobacco, or carbolic acid and its homologues. These poisonous preparations could not be sold loose, but only in packages or containers as received from the manufacturer. Corrosive sublimate could only be sold by a qualified person such as a pharmaceutical chemist or registered druggist. The Justice imposed a fine of £5 for the offence under the Pharmacy Act, and 10s. for the illegal sale of corrosive sublimate.—William F. Murphy, merchant, Aughrim, was summoned on three similar counts to the last defendant, and Mr. O'Connor, who also defended, pleaded guilty, undertaking not to repeat the offences. A fine of £5 for the offence against the Pharmacy Act and £1 for the illegal sale of the corrosive sublimate was imposed. Mr. John J. Gaynor, solicitor, appeared for the Pharmaceutical Society in all three cases.

Belfast

ADDRESS TO ROTARY CLUB.—Mr. Fred Storey, Ph.C. (chairman, Belfast Civic Week Committee) addressed the local Rotary club on September 5.

PHARMACEUTICAL SERVICES DISCUSSED.—At a recent meeting of the Belfast Board of Guardians a member, in outlining proposals for saving money in connexion with the supply of drugs and medicines to the institution and dispensaries, urged that goods should be adequately checked on delivery, and said they required a qualified compounder at the Union. The chairman said the goods were checked and that they already had two compounders. It was then urged that the Board should buy drugs wholesale in the best market, for distribution to the different departments; he thought the matter should go before the Infirmary Committee as early as possible. The chairman suggested that the scheme be brought before a special committee which had been set up to consider the reorganisation of the whole institution. Another member thought they should discard the idea immediately, as it would put them back fifty years. It would be better to follow the Ministry of Labour system by which patients could get fresh medicines on prescription. No action was taken.

Miscellaneous

EXAMINATION ENTRIES.—The latest date for entering for the forthcoming Registered Druggist examination of the Pharmaceutical Society of Ireland is September 27.

A.R.P. IN EIRE.—The question whether pharmacists in Eire should stock and sell air raid precautions equipment is at present under discussion, in view of steps being taken by the Government to develop this aspect of home defence. Mr. F. J. Fitzpatrick, P.C. (treasurer, Pharmaceutical Society of Ireland) has expressed the view that it would be inadvisable and might create alarm amongst the civil population if chemists displayed stocks of gas masks and other A.R.P. equipment in advance of any Government action. If the Department of Defence intimated that co-operation on the part of the chemists would be welcomed, that would be time enough to procure supplies. Pharmaceutical chemists were, in his opinion, best fitted by their training and qualifications to retail these requisites. Sir Thomas Robinson (a member of Council, Pharmaceutical Society of Ireland) thought that pharmaceutical chemists in Ireland should carry full stocks of protective and remedial equipment against aerial warfare as chemists did in England and Scotland. The Department of Defence have let it become known that they are having batches of cadets (all medical students) trained in air raid precautions work; these cadets will later act as A.R.P. instructors.

Amendment of Poisons List and Rules

NOTICE was given in "The London Gazette" of September 6 that the Home Secretary proposes to make certain changes in the Poisons List and Rules. The text of the draft Order relating to the List (H.M. Stationery Office, 1d. and 2d. respectively) is as follows:—

Whereas the Poisons Board has recommended to me that the list of the substances which are to be treated as poisons for the purposes of the Pharmacy and Poisons Act, 1933, should be amended so that certain additional substances should be included in Part I of the said list:—

Now, therefore, in pursuance of Section 17 (5) of the Pharmacy and Poisons Act, 1933, I hereby Order as follows:—

1. In Part I of the Poisons List there shall be inserted the following substances:—

Beta-aminopropylbenzene; its alts; its N-alkyl derivatives; their salts; beta-amino*iso*propylbenzene; its salts; its N-alkyl derivatives; their salts.

Para-aminobenzenesulphonamide; its salts; derivatives of para-aminobenzenesulphonamide having one or both of the hydrogen atoms of the para-amino group substituted by other radicals; their salts.

2. This Order may be cited as the Poisons List (Amendment) Order, 1938, and shall come into operation on the first day of January, 1939.

One of His Majesty's Principal Secretaries of State.

The text of the draft Rules is as follows:—

In pursuance of section 23 of the Pharmacy and Poisons Act, 1933, I hereby make the following Rules:—

1. In Rule 7 of the Poisons Rules, 1935, there shall be substituted for paragraph (4) the following paragraph:—

(4) Where the seller of a poison is reasonably satisfied that the poison is required for the purpose of medical, dental, or veterinary treatment, there shall not apply—

(*a*) in the case of a sale to a hospital, infirmary, dispensary or clinic, such of the provisions of this Rule as require the purchaser to state his trade, business, or profession and the seller to be satisfied with respect thereto;

(*b*) in the case of a sale of the poison not being a poison to which the Dangerous Drugs Acts apply to a duly qualified medical practitioner, registered dentist or registered veterinary surgeon or to a hospital, infirmary, dispensary or clinic, such of the provisions of this Rule as require the purchaser to state the purpose for which the poison is required.

2. For Rule 17 of the said Rules there shall be substituted the following Rule:—

17.—(1) Subject as hereinafter provided, for the purposes of paragraph (*c*) (*i*) of section 18 (1) of the Act and of paragraph (3) (*a*) of Rule 26 the name of a poison shall be—

(*a*) where the term under which a poison is included in the Poisons List describes the poison specifically,

(i) the said term; or

(ii) if the poison is the subject of a monograph in the British Pharmacopœia or the British Pharmaceutical Codex, one of the names or synonyms or abbreviated names set out at the head of the monograph;

(*b*) where the said term describes a group of poisons and not the poison specifically,

(i) if the poison is the subject of a monograph in the British Pharmacopœia or the British Pharmaceutical Codex, one of the names or synonyms or abbreviated names set out at the head of the monograph; and

(ii) in any other case, the accepted scientific name or the name descriptive of the true nature and origin of the poison.

(2) For the purposes aforesaid it shall, in the case of—

(*a*) a substance which is the subject of a monograph in the British Pharmacopœia or the British Pharmaceutical Codex, or any dilution, concentration or admixture of such a substance;

(*b*) a preparation contained in the British Pharmacopœia or the General Monographs or Formulary of the British Pharmaceutical Codex or any dilution, concentration or admixture of such a preparation; or

(*c*) a surgical dressing for which a standard is described in the British Pharmaceutical Codex,

be sufficient, notwithstanding anything in the foregoing paragraph of this Rule, to state the name, synonym or abbreviated name used to describe the substance, preparation or surgical dressing in the British Pharmacopœia or the British Pharmaceutical Codex with the addition of the letters B.P. or B.P.C., as the case may be.

(3) For the purposes aforesaid it shall, in the case of a preparation containing a poison specified in the first column of the Sixth Schedule to these Rules, be sufficient, notwithstanding anything in the first paragraph of this Rule, to state the name of the poison or substance mentioned in the second column of the said Schedule in respect of which the proportion of the poison to the total ingredients of the preparation is in accordance with the provisions of Rule 18 (2) expressed.

(4) For the purposes aforesaid it shall, in the case of a preparation derived from nux vomica or from opium and containing one or more alkaloids of nux vomica or of opium named in the Poisons List, be sufficient, notwithstanding anything in the first paragraph of this Rule, to state the name of strychnine or morphine, as the case may be, or one of the names or abbreviated names of strychnine or morphine, as the case may be, set out at the head of the monographs in the British Pharmacopœia or the British Pharmaceutical Codex.

3. In Rule 18 of the said Rules there shall be inserted after paragraph (2) the following paragraph:—

(2A) In the case of a preparation derived from nux vomica or from opium and containing one or more alkaloids of nux vomica or of opium named in the Poisons List, it shall be sufficient, so far as those alkaloids are concerned, to state on the labels the proportion of strychnine or of morphine, as the case may be, contained in the preparation; and for paragraph (3) there shall be substituted the following paragraph:—

(3) In the case of a substance, preparation or surgical dressing which is named in accordance with paragraph (2) of the last foregoing Rule, it shall not be necessary to state on the label the proportion of the poison contained in the substance, preparation or surgical dressing and, in the case of any dilution, concentration or admixture of such a substance or preparation, it shall be sufficient to state the proportion which the substance or preparation bears to the total ingredients of the dilution, concentration or admixture.

4. In Rule 22 (1) of the said Rules there shall be inserted after the word "ailments" in paragraph (*b*) the words "or not being a local anæsthetic for injection in the treatment of human ailments."

5. In the first schedule to the said Rules there shall be inserted the following substances:—

Beta-aminopropylbenzene; its salts; its N-alkyl derivatives; their salts; beta-amino*iso*propylbenzene; its salts; its N-alkyl derivatives; their salts.

Para-aminobenzenesulphonamide; its salts; derivatives of para-aminobenzenesulphonamide having one or both of the hydrogen atoms of the para-amino group substituted by other radicals; their salts.

6. The poisons and substances or articles set out in Schedule A hereto shall be included in Group II in the Third Schedule to the said Rules as if Schedule A hereto formed part of the said Group II.

7. In the Fourth Schedule to the said Rules there shall be inserted the following substances:—

Para-aminobenzenesulphonamide ; its salts ; derivatives of para-aminobenzenesulphonamide having one or both of the hydrogen atoms of the para-amino group substituted by other radicals ; their salts.

8.—(1) In the Fifth Schedule to the said Rules there shall be inserted, in the second column after the word "disease" where it occurs opposite the poison "Nitrobenzene" in the first column, the words "ointments for the treatment of animals."

(2) The poison and the form to which its sale is restricted set out in Schedule B hereto shall be included in the Fifth Schedule to the said Rules as if Schedule B hereto formed part of the said Fifth Schedule.

9. In the Seventh Schedule to the said Rules there shall be inserted in the first paragraph the following poisons:—

Beta-aminopropylbenzene ; its salts ; its N-alkyl derivatives ; their salts ; beta-amino*iso*propylbenzene ; its salts ; its N-alkyl derivatives ; their salts.

10. The poisons and the particulars set out in Schedule C hereto shall be included in the Sixth Schedule to the said Rules as if Schedule C hereto formed part of the said Sixth Schedule.

11.—(1) These Rules may be cited as the Poisons (Amendment) Rules, 1938, and shall come into operation on the first day of January, 1939.

(2) Rules 2 and 6 of the Poisons (Amendment) Rules, 1937, and Schedule B thereto are hereby revoked.

One of His Majesty's Principal Secretaries of State.

Schedule A

Poison	Substance or article in which exempted
Beta-aminopropylbenzene; its salts; its N-alkyl derivatives; their salts; beta-amino*iso*propylbenzene; its salts; its N-alkyl derivatives; their salts.	Appliances for inhalation in which the poison is absorbed in inert solid material.
Dinitrocresols	Substances not being preparations for the treatment of human ailments.

Schedule B

Poison	Form to which sale is restricted
Metallic oxalates other than potassium quadroxalate.	Photographic solutions or materials.

Schedule C

Name of Poison	Particulars
Insulin	The number of units of activity as defined in the British Pharmacopœia contained in a specified quantity of the preparation.
Nux Vomica	The proportion of strychnine contained in the preparation.
Opium	The proportion of morphine contained in the preparation.

Topical Reflections

By Xrayser

For the Winter Session

We owe you thanks for giving us (*C. & D.*, September 3, p. 237) subject-matter for discussion during the coming winter session of chemists' associations (under which name I subsume, for this occasion, branches of the Pharmaceutical Society and the National Pharmaceutical Union). The germinating principle of what you tell us is to be found, I believe, in the remark that "any section of the community may be called upon to oppose or demand revision of proposals with unexpected suddenness." Yes: it is as well not to wait till some emergency arises before we consider in all its bearings, so far as they can be ascertained, any question likely to affect our position in the community. All is not gold that glitters—and I fear there is little in pharmacy that does even that. We are members of a profession which cannot, usually, provide a competency without the addition of side-lines ; we are also authorised sellers of poisons, a title which, somehow, sticks in the throat when one utters it. At the moment dispensing is limited in amount by the popularity of vaccines, antitoxins and kindred products ; that is a phase which, I venture to think, will eventually disappear on account of the superiority in convenience of preparations that can be administered orally. With further recognition of the place of pharmacy further Government control will in all probability come. Are we prepared for this? Do we contemplate a day-and-night service, as envisaged in your editorial article? I wonder, too, whether in such possible events the possession of costly professional headquarters will prove to be an asset or a liability.

Dispensing Prices in South Africa

The details on p. 230 of charges for dispensing in South Africa bring us down to brass tacks—an expression which, I read the other day, dates back to 1897, though it seems of more recent origin. A few months ago I referred to an article that I consider a classic on this subject: it appeared from the pen of Mr. John Netherway in your issue of December 13, 1919, and *inter alia* enumerated four factors for use in pricing dispensing. I need not recapitulate those factors, assuming as I do that every practical pharmacist in business is well acquainted with them. Without attempting an analysis of the South African proposals, of which I have only seen a summary, I should like to refer to the time factor, which in the example in your paragraph is given as "twelve minutes . . . 2s. 6d." During the negotiations that ushered in the first National Health Insurance Act, an estimate of five minutes as the average time required for dispensing a mixture was made on the English and Welsh side. (I am not sure what view the Scottish negotiators took.) I hold—and I believe I have the assent of every practical pharmacist in this respect—that the estimate was far too low. In looking again for the 1919 article referred to I found a brief and well-documented contribution from a Dover pharmacist in your issue of February 7, 1920. His time factor was eleven minutes for each mixture, an allowance to which the South African twelve minutes approximates closely. Your contributor of eighteen years ago suggested a fee of 4s. 6d. or 5s. an hour for N.H.I. dispensing.

Dosage and Cost

My experience of medical men teaches me that they have no idea of the cost of medicine except when something expensive, such as insulin, first comes into use, or when they do their own dispensing. Mr. Squeers, on the famous occasion when he ordered a coach and damned the expense, probably knew what he was about: a medical man would hardly have given the expense a thought. "Economy in Medication" (p. 238), giving details of dosage cost collected in the United States, is valuable, especially for its tabulated comparisons of dose-price and frequency. I must enter a protest against the author's contention that "the most efficient remedy is likely to be the cheapest." That can only happen, in the case of a new medicament, if the demand becomes so insistent, the initial cost of material so low, and the supply so copious, that production on a large scale is undertaken. With most of his conclusions, however, there will be general agreement. The therapeutic history of some of our best-known drugs and chemicals is curious from the point of view of frequency in prescribing. Why, for instance, should the relatively insoluble sulphate of quinine have gained and kept such an ascendancy over salts of the same alkaloid more convenient for dispensing? Is it a matter of pure chance? Here is a field for research.

Company News

P.C. means Private Company and R.O. Registered Office

STUTELYS THE CHEMISTS, LTD. (P.C.).—Capital £1,000. Objects: To acquire the business of a chemist and druggist carried on by Edward H. Stutely, M.P.S., at 12 Stanley Road, Quinton, Birmingham, 32.

LONGFORD PHARMACY, LTD. (P.C.).—Capital £500. Objects: To carry on the business of chemists, druggists, etc. The first directors are to be appointed. Solicitors: Grundy & Jackson, 196 Deansgate, Manchester, 3.

CELLULOSE COLOUR CO., LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturers of and dealers in chemicals, colours, varnishers, etc. Robert S. Gordon, 16 Fairholme Road, Ilford, director.

NEU-VITA, LTD. (P.C.).—Capital £500. Objects: To acquire the business carried on by L. R. Lacy at Central Buildings, Southwark Street, S.E.1, as "Neu-Vita Health Associates," and to carry on the business of patent medicine proprietors, etc.

LOUIS HOLT (CHEMICALS), LTD. (P.C.).—Capital £2,000. Objects: To acquire the business of chemical manufacturers carried on by Alice M. Holt and Clifford W. Holt at Enderby, Leics. R.O.: "Superior Works," Brook Street, Enderby, Leics.

MADISON (CHEMISTS), LTD. (P.C.).—Capital £100. Objects: To carry on business as manufacturers of and dealers in chemicals, drugs, etc. The first directors are not named. Solicitors: Canter Hellyar & Co., 3-4 Lincoln's Inn Fields, W.C.2.

ROMANY PRODUCTS, LTD. (P.C.).—Capital £100. Objects: To carry on the business of chemists, druggists, herbalists, etc. Alfred W. Weston and Kathleen M. E. Weston, both of 14 Percy Road, Boscombe, Hants, directors. R.O.: 34 Purewell, Christchurch, Hants.

AMBORA SOAP CO., LTD. (P.C.).—Capital £5,000. Objects: To acquire as from June 30, 1938, the business of a soap manufacturer carried on by W. R. Warner at 393 New North Road, Islington, N., as "The Ambora Soap Works," and the Trade Mark 226,079 connected therewith.

SURGICLEAN, LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturers of and dealers in germ-killing cabinets and similar apparatus, spraying appliances, and chemical, surgical and scientific furniture, etc. Solicitors: Sebag Cohen & Co., 45 and 46 West Sunniside, Sunderland.

BRITISH GALENICALS, LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturers of and dealers in chemicals, galenicals, dentifrices, mouth washes, etc. Alfred M. Hogarth (chairman and managing director), 143 Golders Green Road, London, N.W.11. R.O.: 4 Hamsell Street, London, E.C.1.

BURNETT & CO. (LONDON), LTD. (P.C.).—Capital £100. Objects: To acquire the business of chemical merchant and agent carried on by A. A. Burnett at Triumph House, 189 Regent Street, London, W.1. The directors are Arthur A. Burnett and Suzanne Burnett.

GAIETY BEAUTY PREPARATIONS, LTD. (P.C.).—Capital £100. Objects: To carry on business as manufacturers of and dealers in beauty preparations, skin foods, creams, salves, balms, etc. The first directors are to be appointed. Secretary: E. J. Hulse. Solicitors: Theodore Bell, Cotton & Curtis, 11 Stone Buildings, Lincoln's Inn, London, W.C.2.

THERMATIC APPLIANCES, LTD. (P.C.).—Capital £100. Objects: To carry on business as manufacturers, importers and exporters of and dealers in surgical, medical, curative and scientific appliances, instruments, supplies and equipment, etc. The first directors are to be appointed. Solicitors: Docker Hosgood & Co., 10 Newhall Street, Birmingham, 3.

SOMERSET PRODUCTS, LTD. (P.C.).—Capital £5,000. Objects: To carry on the business of manufacturers of and dealers in chemical manures, fertilisers, insecticides and fungicides, oil, grease, and fat extractors, etc. The first directors are A. C. Clark, Lt.-Commander C. N. Everitt, R.N. (retd.), and P. G. Bayley. R.O.: 115 Cannon Street, London, E.C.

J. J. BARKER (CHEMISTS), LTD. (P.C.).—Capital £100. Objects: To acquire rights in a secret process for the manufacture of the Boltem smoke cartridge for bolting rabbits, rats, mice and other vermin, and to manufacture and trade in such smoke cartridge and any improvements thereof. The directors are James J. Barker and Alexander Craig. R.O.: 24 Old Broad Street, E.C.2.

BEECHAMS PILLS, LTD.—At an extraordinary meeting, held in London on Wednesday, September 7, proposals for the increase of the company's capital on the lines recently indicated were approved by shareholders. Mr. Philip Hill, the chairman, took the opportunity to review the company's progress during the current financial year and to outline developments. The recent acquisition of the Maclean business, he stated, would benefit the company from the point of view of the dividends to be received from Beecham Maclean Holdings, Ltd., and also from savings in expenditure and the advantages of pooling management experience. Trading conditions during the current year remained satisfactory, and Mr. Hill saw no reason why the expansion of business and profits, which had characterised the past seven years, should not be continued. He also disclosed that negotiations were in progress which might shortly lead to "interesting developments." As already intimated, the board is proposing to make an issue of 2,400,000 deferred shares of 2s. 6d. each on attractive terms in the near future. Preferential consideration in allotment is to be given to holders of shares of all classes in the company and its subsidiaries.

Voluntary Liquidation

Watsons Chemists (Hull), Ltd., Greenwood Avenue, Hull. —At the statutory meeting of creditors held recently at Hull resolutions were passed confirming the voluntary liquidation of the company, with Mr. E. C. Mallett, C.A., St. Mary's Chambers, Lowgate, Hull, as liquidator. The liabilities were stated to be £428 0s. 10d., against net assets of £170 18s. 1d., or a deficiency, so far as the creditors were concerned, of £257 2s. 9d. The issued capital of the company was £100, and as regarded the shareholders there was a deficiency of £357 2s. 9d. The deficiency was attributed to losses on the trading. The company was registered in April 1937, and a shop was opened in a new area. The accounts for the period to March 31 last showed sales of £727, with a gross profit of £164 and a net loss of £233. No directors' fees had been paid.

Private Arrangement

Walter Clark, 427 Holderness Road, Hull, pharmacist. The creditors herein were called together recently at the offices of Messrs. T. H. Hogarth, Webster & Vice, Whitefriargate, Hull, when a statement of affairs was submitted which showed liabilities of £1,272 6s. 10d., of which £672 6s. 10d., was due to the trade, and £600 to a cash creditor. After allowing £55 11s. for preferential claims, the net assets were £204 19s. 9d., or a deficiency of £1,067 7s. 1d. The debtor, it was reported, commenced trading on his own account about ten years ago. The cash creditor was the debtor's father, who advanced the money for the purpose of enabling his son to purchase the shop fittings and stock. No interest had been paid. During the year to March 31, 1935, the turnover was £1,619, with a gross profit of £445, and a net profit of £190. In the following twelve months the turnover was £1,592, the gross profit being £419, with a net profit of £159. The sales for the year to March 31, 1937, were £1,669, with a gross profit of £372, and a net profit of £130. No accounts had been prepared since March, 1937. It was decided that the matter should be dealt with under a deed of assignment to Mr. T. G. Vice. A committee was also appointed.

Pharmaceutical Society of Great Britain

Council Meeting

AMONG the business transacted by the Council of the Pharmaceutical Society at their meeting, held at Bloomsbury Square on Tuesday, September 6, were the following items:—

Militarisation of Civil Hospitals.—The secretary reported further correspondence with the War Office on this subject. The War Office had taken the view that pharmacists in civil hospitals taken over by the Army in case of emergency would have adequate authority for the performance of their duties if they were granted the rank of warrant officer. The Society had reiterated the opinion already expressed that for these appointments such a rank was not satisfactory, and that it would be unable to recommend to its members that they should voluntarily participate in this scheme.

Correspondence.—From the International Cancer Union, inviting the Society to be represented at a Conference to be held in Paris in November. The Council gratefully accepted an offer from Mr. Rowsell to represent the Society on this occasion and formally appointed him their delegate.

From the Home Office concerning a pharmacist convicted of an offence under the Dangerous Drugs Acts. The president reported that he had interviewed this pharmacist and, in the light of the special circumstances, was of opinion that the Council should concur in the withdrawal of his authorisation to be in possession of dangerous drugs should the Home Secretary take this action. The Council agreed to reply in accordance with the president's proposals.

Representative Body of Teachers.—The vice-president (Mr. W. Deacon) presented the report of a meeting held on July 11. The report was received and referred to the Education Committee.

Wednesday's Proceedings

Several important questions were discussed at the meeting of the Council, held at Bloomsbury Square, London, W.C., on Wednesday, September 7, the president (Mr. T. Guthrie) in the chair. Apologies for absence were read from Sir Walter Langdon-Brown, Mr. T. Marns and Mr. Neathercoat.

THE PRESIDENT made appropriate reference to the death of Mr. Thomas Maltby Clague, of Looe.

Gifts for the Society's museum in the new building were suitably acknowledged from Mr. Jack (an eighteenth-century French engraving); Mr. W. H. Miner, Birkenhead (a circular dated June 17, 1851, sent out by Mr. G. W. Smith, first secretary of the Society, on the Pharmaceutical Bill of 1851); and Mr. W. H. Hampton, Gloucester (old type of ear syringe).

REGISTRATION ITEMS

Twenty-four persons were elected student-associates, and the registrar was authorised to restore seventy-eight persons to the Register. Seventeen persons were restored to the Registers of Pharmaceutical Chemists and Chemists and Druggists. Forty sets of premises were restored to the Register.

Merle Doreen Davies, formerly of Sydney, now residing at 10 Thurlow Road, Hampstead, London, N.W.3, Andrew Gerard Kerrigan, formerly of Belfast, now residing at 51 Saltern Crescent, London, W.9, and Michael Patrick Lee, formerly of Belfast, now residing at 22 Inglewood Road, London, N.W.6, were registered as chemists and druggists in accordance with the provisions of Section 4, subsection (b) of the Poisons and Pharmacy Act, 1908, and Section 1 of the Pharmacy Act, 1929.

Reports were received on the examinations in London and Edinburgh in July, the examination for the Jacob Bell, Leverhulme, Manchester, Nottingham, and Devon and Cornwall Scholarships and the Council Prizes examination.

MR. HIRST pointed out, with regard to the London and Edinburgh examinations, that no data of the number of entrants or other useful information had been published in the pharmaceutical Press, whose report was simply of successes. He had been asked whether the Council were keeping back something of which they were ashamed. His reply had been that the omission must have been due to an oversight.

MR. PARRY said it would be a great convenience to those officially interested in the matter if the results of the examinations could be published quarterly on a specified date. It had taken him hours sometimes to trace the names of some who had passed during the current year.

THE SECRETARY emphasised that it was not satisfactory for Insurance Committees or Pharmaceutical Committees to use the lists published in the pharmaceutical papers, for they were not lists of persons who were registered as chemists and druggists. The only thing to do was to write to the office and to tell persons concerned that they must produce a certificate.

MR. WALLIS said there was a good deal of delay involved in obtaining the required information, though he quite realised that the only way was to write to the office.

MR. ANTCLIFFE: The man himself should write here.

THE SECRETARY agreed, and said it was primarily for the applicant to write, and in some cases a reply could be sent by telegram if the matter did not arise too frequently.

MR. PARRY repeated that his suggestion that the names should be published quarterly on certain dates was only in the interests of convenience.

THE SECRETARY said that if such a practice were followed it might result in the lists being held up for a week or two. A man could always put the number of his receipt on his application. That might help.

MR. PARRY said the receipt number would not satisfy him, though it was the quickest way to go to a man and ask him for that.

THE PRESIDENT said he thought the suggestions made by the secretary for dealing with the matter were the most satisfactory and members would perhaps take note of them.

THE SECRETARY added that the pharmaceutical papers were now receiving summaries of the figures, which had been prepared as soon as possible.

THE PRESIDENT congratulated the successful candidates, and MR. PARRY drew attention to the fact that Mr. Nixon, the winner of the Jacob Bell scholarship, was the son of the chairman of Ayrton Saunders & Co., Ltd., of Liverpool.

EDUCATION COMMITTEE

The report of the meeting of the Education Committee of September 6 was presented by the chairman, Mr. P. F. Rowsell. The Committee recommended that a report on the teaching of bacteriology be circulated to schools of pharmacy, asking for their comments; a statement concerning concessions granted to pharmacists and students from outside Great Britain was also received. An application for approval of conditions for a practical course of study in a hospital was deferred pending a visit of inspection, and one application for approval of a full-time course of instruction for the Preliminary Scientific examination was granted; the report of the Examination Regulations Subcommittee was considered and referred to the Council. Eight applications for concessions in respect of the examination regulations were considered, seven of which were granted. A letter was received from one approved school stating that the conditions laid down by the inspectors of the University and the Society had been complied with, and the Committee recommended that a second approved school be approved for the Pharmaceutical Chemist Qualifying examination for a further two years as from October 1938. Letters were received from the University of London specifying amendments which are to take effect in and after 1939 in the bacteriology section of the syllabus in pharmaceutics, and from the secretary of the Manchester Branch stating that James Woolley, Sons & Co., Ltd., had promised to provide a special research scholarship at the University of Manchester of the annual value of sixty pounds for five years.

MR. ROWSELL said that in the past the teaching of bacteriology had been in the hands of medical men, but there was a strong feeling in the universities and kindred institutions that pharmacists should be capable of teaching it. Mr. Berry, of course, was qualified to do so, but there were not many others.

There was some discussion on the fact that members of Council had not had an opportunity of seeing the report on the subject and even that meeting had no papers dealing with it.

THE PRESIDENT, however, said there could be no harm done as the matter would come before the Council again when the report was received.

MR. ROWSELL said the sending of the report to the schools could be held up until it had been circulated to the Council with the next lot of papers. He then referred to the alarm which had been expressed as to whether too many pharmacists from certain parts of the Continent were being given too many concessions. The Committee had gone into the matter and did not recommend going any further at present.

MR. JACK began to speak, but THE PRESIDENT intervened, asking him to introduce later the matter he wished to raise.

MR. JACK then said he had on several occasions in recent years drawn attention to questions being dealt with when members of Council had no information concerning them among their papers.

MR. ROWSELL then said the matter he was now raising had been circulated to members, and proceeded to read extracts showing that from January 1933, the date on which the National Socialists came into power in Germany, to July this year, only twelve persons from Germany were given any concessions, there were two from Austria and one from Italy, the remainder being largely from our own Dominions. Altogether only thirty-nine persons had been given concessions, and with all the concessions granted only three persons had qualified. Members would see the periods covered and the number each year, and would note that in 1937 there were ten and up to July this year there were also ten. The committee had taken each case on its merits, considering all the evidence of each applicant, and had felt free to make the particular recommendation which appeared most appropriate. They might, nevertheless, find it useful to maintain, as a rough guide, the criteria adopted in July.

The committee, Mr. Rowsell continued, thought it wise to recommend going on present lines until the end of the year, when they could again survey the whole position and report further. They were not in the same position as the medical profession, who had fixed the number to be admitted at 50 per annum. The committee had guarded the position most carefully and fairly.

MR. MCNEAL said, as the member who had raised the question at the last meeting, he was pleased to see the report, which he regarded as satisfactory.

MR. WALLIS mentioned the matter of unqualified and half-qualified men who might include undesirable aliens. The Society had enough trouble from such men of their own nationality already.

MR. ROWSELL said there were only a few who were really aliens, the remainder being from our own Dominions.

THE SECRETARY emphasised that there were only thirty-nine cases altogether, and so far as he knew only thirteen had taken the trouble to register, while the number who had come to this country was even smaller. The Council would be discussing the question of Austria next month, and the matter could be further considered on that occasion.

MR. WELLS asked how men going to other countries from Great Britain were dealt with.

THE SECRETARY said it was quite an important point, for the Society had an arrangement with the German authorities for interchange of pharmacists.

THE COMMITTEE OF INQUIRY

In the absence of Mr. Marns, Mr. Rowsell presented the Progress Report of this Committee. The report was received and the Council authorised its presentation to the representatives at their meeting in Edinburgh.

BENEVOLENT FUND COMMITTEE

The report of this Committee showed that eighteen applications had been considered, and grants made ranging from £2 to £26. Special contributions acknowledged included £50 12s. 9d., collected by Mr. J. Reynolds, of Cardiff, for the "J. D." Memorial Fund, and £24 4s. 2d. from the Birmingham branch.

MR. ANTCLIFFE, in expressing appreciation, mentioned that covenants had been made by some fifty subscribers and the fund would benefit appreciably therefrom.

THE PRESIDENT said it was gratifying to find so many members were using the deed of covenant, which would be very helpful.

WAR AUXILIARY BENEVOLENT FUND

This committee reported that seven applications had been considered, and grants made or now recommended ranged from £13 to £39.

ESTABLISHMENT COMMITTEE

The report of the Establishment Committee referred to the Ransom Fellowship, 1938-40, and Rammell Studentship, 1938-39. It was reported that the subcommittee, consisting of the President, Chairman and the Dean, had made the following awards:—Ransom Fellowship, Miss Joan Embleton; Rammell Studentship, Mr. G. Brownlee (present holder).

The Committee considered a recommendation from the subcommittee to amend the wording of Regulation 4 in the Research Scholarship regulations and the Rammell Studentship regulations, and recommended that the following alteration be made in Regulation 4:—"Every applicant must submit to the Secretary, Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C.1, on or before July 1, a personal application, including particulars of age, education qualification, the particular branch, if any, of study, in which he desires to engage in research, together with any other relevant information. The application should include the names of three persons as referees, at least one of whom must be the principal or head of the pharmacy department of the institution in which the applicant received his pharmaceutical training"; and that the same wording, with the omission of the words "the particular . . . research," replace the existing wording of Regulation 4 of the Rammell Studentship regulations.

The Committee agreed to the suggestion that there should be a conversazione during the coming session in place of one of the evening meetings for the purpose of stimulating interest in the new building with a view to augmenting the Fund.

In connexion with the secretary's report to the Council on this matter, the Committee considered the question whether any substantial part of the building could be regarded as unnecessary or extravagant, and they came to the conclusion that it could not. They also reconsidered the question whether it would be advisable to house the Pharmacological Laboratories in the country, and confirmed their earlier decision.

FINANCE COMMITTEE

The financial statement showed that receipts since the last meeting, including a balance of £44 8s. 7d., amounted to £16,549 4s., comprising the following items:—Members' fees, £542 17s.; Premises fees, £204 15s.; Subscriptions, £13 13s.; Examinations, £1,616 7s.; Registration fees—as apprentice or student, £130 4s.; Registration fees—as chemist and druggist, £21; Restoration fees, £98 3s. 6d.; Law—penalties and expenses, £137 0s. 6d.; Law—inspections of premises, £544 8s. 6d.; Rentals, £333 13s. 9d.; Certificates of qualification, £1; "Pharmaceutical Journal," £3,142 19s. 6d.; Pharmaceutical Press, £699 12s. 9d.; Deposit interest, £122 2s. 11d.; F.S.S.U.—contributions, £146 3s. 3d.; sundries, 14s. 9d.; Transferred from deposit account, £8,750. Payments ordered at the last meeting amounted to £16,543 3s. 1d., leaving a balance of £6 0s. 11d., and the amount on deposit account was £49,000. The other balances were:—Benevolent Fund (current acount), £26 8s.; Deposit account, £1,650; Benevolent Fund (donation account), £1 12s. 8d.; Deposit account, nil; War Auxiliary Benevolent Fund, £24 17s. 4d.; Deposit account, £250; Hills Orphan Fund, £16 7s. 8d.; Deposit account, £380; Orphan Fund, £6 8s. 7d.; Deposit account, £130. The action of the Secretary in making payments amounting to £3,019 7s. 1½d. was approved, and payments of £558 3s. 5½d. for the Pharmaceutical Trust were also approved. The treasurer was authorised to pay accounts amounting to £14,281 7s. 3d., and the trustees of the Pharmaceutical Trust were requested to pay accounts amounting to £1,607 18s. 10d.

SCHOLARSHIP AWARDS

The numbers of candidates who entered for the respective Scholarships Competition are:—Jacob Bell, 30; Leverhulme, 38; Manchester, 13; Nottingham, 6; Devon and Cornwall, 2. Acting upon authority given to him at the last meeting of Council, the President has made the following awards:—

Jacob Bell Memorial Scholarship: Gilbert Andrew Nixon, Liverpool.

Leverhulme Scholarship: William Harold Collen Shaw, Nottingham.

Manchester Pharmaceutical Association Scholarship: Arthur Ezekiel Moss, Wallasey.

Devon and Cornwall Exhibition: Ernest Cecil Verdun Summerfield, Woodbury.

Nottingham University College Studentships in Pharmacy: Arthur Hellier Caswill, Woodbury Salterton; Roland Yorke, Bolton.

Mr. Wallis, in the absence of the treasurer, submitted the accounts and said that the affairs of the Society were being satisfactorily administered. Membership was about 34,000.

LAW COMMITTEE

The report of the meeting held on September 6 was presented by Mr. J. Jack, the chairman. It showed that in England, Scotland and Wales 1,877 chemists' shops, 180 listed sellers, and eighty-one drug store proprietors, grocers and similar traders had been visited by the Society's inspectors during the past month. It showed also that in England and Wales 503 drug stores and other premises had been visited by the Society's agents during the past month.

The Committee considered the following resolution of the Newport and Monmouthshire Branch of the Society concerning the sale of aspirin, referred to the Committee by the Council at its July meeting:—

> That this Branch urges the Council to recommend to the Poisons Board the advisability of placing some restrictions upon the sale of aspirin in view of the increasing number of self-poisoning cases arising from its indiscriminate use by the public.

It was recommended: That the secretary be instructed to write a letter to the Newport and Monmouthshire Branch stating that:—

> "In view of the opinion given in the Report of the Poisons Board, dated the 29th May, 1935, with which the Council finds itself in agreement, the Council does not feel that any useful purpose will be served in approaching the Poisons Board with reference to the control of the sale of aspirin";

and that a copy of the extract from the Report of the Poisons Board (Appended) be enclosed with the secretary's letter.

Extract from the Report of the Poisons Board, dated May 29, 1935

Although the increasing number of suicides from all causes may well be a matter of public concern, the use of poisonous substances as a means of suicide does not appear to us to present a peculiar problem that can be appropriately or effectively dealt with by the inclusion of such substances in the Poisons List. We gather that a similar conclusion was reached by the Board of Trade Departmental Committee on Deaths from Gas Poisoning. (Stationery Office Publication 51-182 of 1930.)

As the substances most commonly used for suicide such as hydrochloric and other acids, phenolic disinfectants, barbiturates, etc., call for inclusion in the List for other reasons, the point becomes of practical importance only in connexion with, on the one hand, turpentine and other fluids which do not present any real danger of accidental injury but which are from time to time used as a means of suicide, and, on the other hand, drugs which are not inherently especially toxic but which provide a means of suicide if taken in a sufficiently large quantity. In this latter category is acetylsalicylic acid (aspirin). The mortality statistics show that during the period 1925 to 1933 there were 106 fatalities attributed to the use of this drug. These figures are substantial and apparently increasing. When, however, consideration is given to the enormous quantities of aspirin that are consumed without injury and to the abnormally large quantity that must ordinarily be taken to provide a fatal dose, we have not thought the evidence of danger sufficient to justify the scheduling of this drug as a poison. Nor do we consider that its inclusion could provide any protection for persons who have the deliberate intention to poison themselves by it.

NEW INSURANCE CONTRACT

At the close of the meeting Mr. Parry said now that they were faced with the terms under National Health Insurance scheme, he had expected a report from the Joint Committee. Before the next meeting of the Council the terms would probably be decided, and the final effects would affect thousands of employees throughout the country. He was wondering whether something would be done to try to get, outside the Insurance Act, better terms for pharmacists.

The president said he understood something would be happening in another direction to clarify the position.

MR. PARRY: Then I can't carry the matter any further, can I?

This was all the public business.

The Society's New Headquarters

The Establishment and Finance Committees and the Council devoted Monday afternoon and evening to the problem of the new building. In the afternoon the Establishment Committee, with the architect, re-examined the plans of the building and surveyed the large items of accommodation from the point of view of their necessity. The outcome of this survey was the finding that there was only one laboratory and certain minor rooms which could be regarded as extra to the Society's needs. The practicability of eliminating these by the omission of a part of the rear of the north wing was discussed, and was rejected by the Committee by reason of the excessive additional cost which would be incurred by adding this section to the building after the remainder had been built. The Committee also reviewed their decision of June 1935 concerning the retention of the pharmacological department in London. They agreed that the reasons which then influenced the Council remained valid to-day, and that the advantages were outweighed by the expense of the maintenance of a separate establishment. In the light of these considerations, the Committee agreed to report to the Council that the building as now designed represented what was necessary for the present activities of the Society, with reasonable but not excessive provision for expansion. It was also agreed to report that the Committee were satisfied that the decision of the Council to continue to house all the departments under one roof was fully justified.

The Finance Committee had before them the tender for the building and contents, together with estimates of the Society's assets, and a comparison of the estimated cost of upkeep of the new building with the estimated income. The Committee agreed to report to the Council that they regarded the upkeep of the new building as within the Society's future income, leaving reasonable annual surpluses after estimating income on a conservative basis. They reported further that, after examination of the assets available and estimated to meet the capital cost of the building and contents, they were satisfied that if certain items could be left to be proceeded with at a somewhat later stage or even omitted altogether from the building as first constructed until donations or savings made their completion possible, there was no reason why the project, as now before the Council, should not be proceeded with.

The reports of the two Committees came before the Council at their meeting in the evening, which was also attended by the architect. After a full consideration of the project, both from the point of view of accommodation and finance, the Council recorded their decisions in a number of formal resolutions passed unanimously. After estimating the extent of probable donations, it was decided that £310,000 must be fixed as the limit which the Society's present resources and anticipated income over the next two years justified expending on the building, contents, fittings, equipment, fees and all extras. If, however, additional donations were forthcoming towards the cost, the scheme would be open to review during its progress, especially if they were donations allocated to specific objects. The lowest tender for the building and certain contents was accepted, subject to the contract providing for reductions in the event of specified items of contents and decoration being omitted, and subject to the terms of the contract being approved by the Society's solicitors. Authority was given to the secretary to secure vacant possession of the houses on the site which were still occupied, and the treasurer was asked to reopen negotiations with the Bedford Trustees for the disposal of the leases of the present building on the assumption that the Society could give vacant possession on October 1, 1940.

NEW FACTORIES ACT.—A ten-page pamphlet entitled "The Factories Act, 1937—Safety Tables and Memoranda" has recently been issued by the National "Safety First" Association, 52 Grosvenor Gardens, London, S.W.1, price 4d. The pamphlet is designed to provide factory occupiers with information on the new safety requirements for existing plant and procedure. It contains a series of questions covering the whole of the Act, and also detailed tabular statements dealing with the more complex sections such as those affecting the fencing of guards, ropes, chains, lifting tackle, steam boilers, lifts and hoists.

Veterinary Abstracts

Vaccine in Equine Influenza

An autogenous vaccine has been tested on a series of pedigree horses during an outbreak of equine influenza, and it is reported that it has reduced the mortality rate from 50 per cent. to *nil* ("Veterinary Journal," August, p. 323). The vaccine was prepared from a strain of *Streptococcus hæmolyticus equi* obtained from a fatal case, and was given to the animals in six injections at intervals of four days. Thirty-three of a group of horses were inoculated with the vaccine, and forty-two horses in the same estate were left untreated. During the outbreak nine vaccinated and fourteen unvaccinated animals contracted the disease, and whereas seven of the latter horses died, no deaths occurred in the nine vaccinated animals. The author states that no conclusions regarding the value of other forms of treatment used on these cases can be made—the disease appeared to take a set course irrespective of attempts at treatment.

Blackhead in Turkeys

The recent use of organic arsenical preparations in the treatment of blackhead in turkeys has been attended by considerable success, and shows much progress over the older forms of treatment, such as administration of astringents and intestinal antiseptics. Many different arsenical preparations have been tried with varying results, and the response from two proprietary products of arsenic has been recorded by Blount in the "Veterinary Journal," August, p. 344. The products in question, which have been used successfully as spirochæticides in human beings, were (*a*) spirocid (3-acetylamino-4-hydroxyphenylarsonic acid), which was given orally, and according to the author can be given satisfactorily in doses of half a tablet repeated at weekly intervals for birds three to six weeks old and one tablet every ten days for birds of six weeks and upwards; (*b*) mapharsid (meta-amino-parahydroxy-phenylarsine oxide hydrochloride), which is recommended to be given by injection in doses of 0.004 gm. to birds of three months, and 0.006 gm. to those five months old, repeated in one, two or four weeks according to requirements. The account gives details of trials of several groups of turkeys, particulars of the doses given and the recovery which has followed the treatment, and it is stated that the two products tested appear to be of real value in controlling the disease. Regarding the toxicity of mapharsid, the author states that the dose referred to above is safe and convenient for routine use; 0.12 gm. does not appear to be toxic, while 0.15 gm. is approximately the limit, as it produces fatal results in some birds. Occasionally, signs of pain following the injection of the latter preparation were observed in the leg muscles of the birds, but this is attributed to the particular dilution of the injection used. Details of the process of healing after administration of the injections are referred to in the report.

Magnesium Lactate in Canine Hysteria

The treatment of canine hysteria with magnesium lactate injections is outlined by Hernaman Johnson in the "Veterinary Record," July 9, p. 848, who gives some details of the results obtained with this form of therapy. On dogs of different breeds this worker has used a 3½ per cent. solution of magnesium lactate intramuscularly, in some cases by a single injection of 10 to 20 c.c., and in others by a second injection, and it is recorded that the treatment has been followed in many instances by complete recovery. The number of dogs on which Hernaman Johnson has tried this form of therapy has only been small, but nevertheless, the treatment is considered to be an improvement on older methods. The type of cases which benefited was true and uncomplicated hysteria, that due to distemper being rarely affected. It was noticed that pregnancy and lactation seemed to cause a breakdown in the condition of the animals, but where there was no drainage of milk the animal soon returned to normal health. No improvement was noted where the hysteria was followed by fits.

Insurance Act Dispensing

ENGLAND AND WALES

Blackpool.—The annual report of the Insurance Committee, recently issued, gives the number of prescriptions dispensed during the year as 219,513, against 201,841 in 1936; average cost was 8.60d., against 8.61d. The amount distributed to chemists was £7,584. The number of insured persons was 46,714.

Norwich.—The local Insurance Committee has approved a report of the Pharmaceutical Service Subcommittee upon twelve tests made under the testing scheme. Only one case had to be brought to the notice of the Insurance Committee. The subcommittee recommended that chemists concerned should be requested to exercise greater care in their dispensing.

Worcestershire.—The County Pharmaceutical Committee is sending to a number of Pharmaceutical Committees in other areas a circular dealing with the propositions to be put before the Conference of Representatives of Pharmaceutical Committees, London, on September 21, by the Executive of the National Pharmaceutical Union. The following is an extract from the circular:—"My Committee feel that the time is not opportune to enter into a five years' contract at present tariff rates, and although they are naturally in favour of full payment of the chemists' accounts, there are disadvantages which may be very great in transferring all interest in the Drug Fund to the Ministry. Also, if we accept the proposals, we definitely throw away any possibility of improved remuneration for the term of the new contract irrespective of what conditions of business may develop during the next year or two—administrative costs of running a pharmacy may increase very considerably. By taking the risks in completing the present contract in preference to the Ministry's proposals, we do demonstrate to the Ministry in a practical way that we are not satisfied with our present remuneration and are not prepared to negotiate a new contract on present tariff rates; we thus strengthen the hands of the N.P.U. for future negotiations. In view of the present national and international situation much may happen in the near future, and therefore my Committee think chemists would be ill-advised to enter into a new contract on the terms suggested."

The Worcestershire Committee is also sending a letter to all chemists on the county panel asking for their views as to how their representatives should vote at the national Conference.

SCOTLAND

West Lothian.—A decision by the Sheriff of Caithness, Orkney and Zetland, as referee in an appeal by insured persons in the Livingston station area against a finding of the West Lothian Insurance Committee, was submitted at the quarterly meeting of the Committee, held in Edinburgh recently. The Committee's decision had been to terminate, from a given date, the practice by which an allowance was given to a medical practitioner on the panel to dispense drugs and prescribe appliances on a basis finally adjusted as a capitation grant. Reasons of convenience in this scattered country district, where no chemists were available except at distant centres such as Bathgate, had made that system the most efficient and convenient. A substantial body of insured persons appealed to the Department of Health for Scotland against this decision, and the referee heard the parties at Bathgate. Refusing the appeal, he remitted the case for the Insurance Committee to consider whether conditions requiring special arrangements did not apply to the Livingston district. In a note the referee stated: "I do not see how the Committee could have avoided reconsideration of the question, and at least some readjustment of the requirements of dispensing by the panel doctor, in view of the setting up of a chemist's business in Blackburn. I further consider that as the medical practitioner concerned lived in Bathgate, consulted with patients from outlying districts in Bathgate, and yet dispensed for them in a town of adequate chemist facilities, the case was overdue for fresh consideration." . . . The Committee resolved to submit the matter to the Department of Health, with a suggested method of dealing with the point raised by the referee.

Trade Notes

SEED DRESSINGS are advertised in this issue by Tomlinson & Hayward, Ltd., 51 Newland, Lincoln.

DEEN BRAND TABLETS for the treatment of rheumatism and similar affections are supplied by Western Chemical Co., Swansea.

PASTILLES AND LOZENGES.—Robert Gibson & Sons, Ltd., Hulme, Manchester, invite chemists to write for details of their winter bonus terms for pastilles and lozenges.

ECLIPSE SAFETY RAZORS.—James Neill & Co. (Sheffield), Ltd., Sheffield, 11, have introduced some new models of their well-known razor, and these are to be extensively advertised.

RODINE RAT POISON.—T. Harley, Ltd., Perth, draw attention elsewhere in this issue to the special terms available in connexion with Rodine phosphorus and red squill rat poisons.

RANKIN'S HEAD OINTMENT.—Rankin & Co., East George Street, Kilmarnock, wish to draw attention of chemists to Rankin's Head Ointment, the sale of which is restricted to chemists.

M. & B. SPECIALITIES.—Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, have issued a new list of their products, together with short descriptive notes on them. A copy of this useful list will be sent to any chemist who writes for it.

PERSALTS.—B. Laporte, Ltd., Luton, call attention to the fact that they are manufacturers of, and invite inquiries for, ammonium persulphate, potassium persulphate, benzoyl peroxide, magnesium peroxide, strontium peroxide, zinc peroxide.

PINEATE.—International Chemical Co., Ltd., Braydon Road, London, N.16, are sending out particulars of a special offer in connexion with Pineate Honey Cough Syrup. Any chemist who does not receive this information shortly should write to the company for details.

CROOKES LABORATORIES, Park Royal, London, N.W.10, invite chemists to write for particulars of the bonus terms and special displays available in connexion with Crookes' products. Advertisements relating to these preparations are to appear in the London and provincial newspapers. The company's principal showcard this year is "Boy in Overalls," which is unusually attractive. This card also forms the base of Messrs. Crookes' set window show with which they will dress any pharmacy window in return for a bonus order.

DITMAR DUO CINE PROJECTOR.—A difficulty not infrequently encountered by amateur cinematographers is that of having a projector of one substandard film size and wishing to project a film of a different size. The restriction can be overcome by means of the Ditmar duo projector distributed in this country by Actina, Ltd., 19 Woodstock Street, New Bond Street, London, W.1. This apparatus is excellently constructed and enables, according to the model, one of which is illustrated herewith, the projection of 16 m.m. and 8 m.m. films, of 16 m.m. and 9.5 m.m. films, or of 8 m.m. and 9.5 m.m. films. In the machine there are two sets of components, while at the same time the parts common to both sizes, such as the lighting and optical system, can be set in the required position by a mere swivelling action. The exchange and approximate focusing is effected by a mere pulling in and out of the lens, and the final focusing to obtain pictures of absolute sharpness is achieved by rotation of a milled ring.

CROMESSOL.—The Cromessol Co., Ltd., 140-148 Brand Street, Ibrox, Glasgow, S.W.1, give prices and other details of their sprayer and essences in the advertisement pages of this issue.

CHERAMY PERFUMES.—The Perfumery Marketing Co., Prince's House, 190 Piccadilly, London, W.1, are issuing the display cabinet illustrated herewith in connexion with Cheramy perfumes. Although inexpensive, these perfumes are stated to be prepared with the best essences obtainable and with rectified spirit. Twelve floral odours are obtainable.

B.I.F. BOOKLET.—An informative booklet telling the story of the growth of the British Industries Fair has been issued by the Department of Overseas Trade, 35 Old Queen Street, London, S.W.1. Manufacturers who are contemplating taking space at the next Fair, which will be held from February 20 to March 3, 1939, can obtain a copy of the booklet from the above address.

LIGHTING REFLECTORS.—Falk, Stadelmann & Co., Ltd., 83-93 Farringdon Road, London, E.C.1, have issued a new list of their Sun Star lighting reflectors. Among the models available is one for shallow windows, for deep windows, for flood-lighting and for general purposes.

DRY SHAVING.—Schick Dry Shaver (England), Ltd., 1-9 Hills Place, Oxford Circus, London, W.1, invite chemists to write for details of accredited dealerships in connexion with their electric razors. An interesting test is also mentioned to show that the Schick razor does not injure the skin.

CALOTHERM.—The Calotherm Manufacturing Co., 280 Vauxhall Bridge Road, London, S.W.1, are the manufacturers of a preparation sold under the name of Calotherm for the prevention of moisture condensation on shop windows, show cases, spectacles and other glassware. Prices and other details are given on another page.

Trade-Mark Applications

(From "The Trade Marks Journal," August 24, 1938)

"SPRAYLO"; for all goods (3). By The Green Circle Products, Ltd., Alpine Mills, Old Basford, Nottingham. 586,438.

"CALDEFERRUM"; for iron preparations (3). By Glaxo Laboratories, Ltd., Greenford Road, Greenford, Middlesex. 586,577.

"KARATOR"; for photographic apparatus. "AGFA-KARAT" (word "Karat" disclaimed); for all goods (8). By I. G. Farbenindustrie, A.-G., Grüneburgplatz, Frankfurt-on-Main, Germany. 586,988/989. (Associated.)

"IVOREX"; for surgical instruments, etc. (11). By Ivory Dental Co., Ltd., 37-38 Golden Square, London, W.1. 585,726.

"SPINNEY" on illustration; for surgical instruments, etc. (11). By Littlewood's Mail Order Stores, Ltd., 100 Oldhall Street, Liverpool. 586,499. (Associated.)

"SUNOSTAT"; for surgical instruments, etc. (11). By Watson & Sons (Electro-Medical), Ltd., 43 Parker Street, London, W.C.2. 586,302.

"BERMUDA MOON"; for perfumery, etc. (48). By Eugene, Ltd., 15 New Burlington Street, London, W.1. 586,198.

Incense burner with design in smoke; for perfumery, etc. (48). By Jersey Publishing Co., Ltd., 31 Kingswood Avenue, Thornton Heath, Surrey. 586,813.

APPLICATION AMENDMENT

The specification for "NAILOID" in Class 48, No. B583,636, by Allcock Manufacturing Co., has been amended to "a soap cream (not medicated) being a toilet preparation for use in manicuring the hands and feet."

Births

Notices for insertion in this column must be properly authenticated.

AMOS.—At Lorna Lodge, Didsbury, Manchester, on September 6, the wife of C. R. Amos, M.P.S., of a son.

MCCULLAGH.—On August 18, the wife of Robert Joseph McCullagh, M.P.S.I., Blackrock, co. Dublin, of a son.

MCDOUGALL.—At Ferryhill Nursing Home, recently, the wife of Mr. J. McDougall, M.P.S., Aberdeen, of twin daughters.

MACFARLANE.—At Inverness, on August 26, the wife of George A. MacFarlane, M.P.S., Fort William, of a son.

STEPHEN.—At High View Nursing Home, Farmcombe, recently, the wife of Alfred M. Stephen, M.P.S., Milford, Surrey, of a daughter.

Marriages

CAMPBELL—BAXTER.—On August 31, Neil Macintyre Campbell, M.P.S., Glasgow, to Jessie G. Baxter.

CHALMERS—BIRNIE.—At Glasgow, on August 20, John C. Chalmers to Gertrude M. Birnie, daughter of Mr. James M. Birnie, M.P.S., Aberdeen.

KIRKPATRICK—IRWIN.—At Christ Church, Carrowdore, co. Down, on September 1, John F. Kirkpatrick, son of Mr. D. L. Kirkpatrick, Ph.C., secretary of the Pharmaceutical Society of Northern Ireland, to Mabel I. Irwin.

MOLLOY—JOHNSON.—At the Church of the Immaculate Conception, Ballymore, recently, Richard Molloy, M.P.S.I., to Martha Johnson.

PIPE—DAVIES.—At the Tabernacle Church, Cardiff, on September 3, Arthur P. Pipe, M.P.S., Cardiff, to R. E. Davies.

ROBINSON.—CURD.—At St. Mary's Church, Hayes, on August 27, Charles H. Robinson, M.P.S., to Norah M. S. Curd.

RYAN—COPELAND.—At Ballyclare, co. Antrim, on August 16, W. Austin Ryan, Ph.C., Dublin, to Kathleen Copeland.

TURNER—BENTON.—At St. Mary's Hothfield, on August 29, Peter G. Turner, M.P.S., St. Ives, to Mary Benton.

Deaths

BAKER.—On August 28, Mr. Thomas Baker, M.P.S., 1 Cleeve Road, Oldham. Mr. Baker passed the Minor examination of the Pharmaceutical Society in 1898.

BREWERTON.—Recently, Mr. Thomas Brewerton, M.P.S., 4 Park Grove, Whetstone Lane, Birkenhead, aged eighty-five.

DELL.—Recently, Mr. Frederick Barton Dell, chemist and druggist, Petts Wood, aged seventy-seven. Until his retirement some years ago Mr. Dell was proprietor of the business of Dunkley & Rogers, chemists, High Street, Tunbridge Wells.

INNES.—At Edinburgh, recently, Mr. James Innes, M.P.S., aged sixty-eight. Mr. Innes was apprenticed in Turriff, and after qualifying served for many years as pharmacist in naval hospitals, retiring in 1930. He leaves a widow, a son and a daughter.

KELLY.—Recently, Mr. John Waterson Kelly, M.P.S., Cronkbourne, Douglas, Isle of Man, aged eighty-one.

KENNEDY.—Recently, Mr. George Kennedy, M.P.S., 2 Park Road, Liverpool, aged fifty-nine.

MAYOR.—On August 22, Mr. David Herbert Mayor, chemist and druggist, 83 Chancery Lane, Ardwick, Manchester, aged seventy.

STEWART.—Recently, Mr. William John Stewart, M.P.S., Moat Street, Stockton-on-Tees, aged forty.

Personalities

MR. MATTHEW J. RICH, chemist and druggist, and MRS. RICH, Crowthorne, Berks, have recently celebrated their golden wedding.

MR. A. H. MUNROE, field sales manager of Pepsodent, Ltd., London, N.W.10, won the Thorpeness men's open doubles tennis tournament in partnership with his brother-in-law, Mr. Gerald Sanger.

PROFESSOR F. E. FRITSCH, F.R.S., a member of the Board of Examiners of the Pharmaceutical Society of Great Britain, and head of the Department of Botany at Queen Mary College, University of London, has been elected to the Council of the British Association.

MR. H. W. HARRIE, of the representative staff of C. R. Harker, Stagg & Morgan, Ltd., manufacturing chemists, London, E., completed fifty years' service (the whole of his commercial career) with the company on September 3. He first joined the firm as an assistant in the tincture department under Mr. S. Morgan, but his keen interest in all sections of the business impressed his employers and he was later transferred to the sales staff. One of the best known commercial travellers in the drug trade, Mr. Harrie was until recently honorary treasurer of the United Kingdom Commercial Travellers' Benefit Society, and recognition of his valuable work in this sphere was recorded not long ago (see *C. & D.*, 1937, I, 279).

Photo] [*Dora Head*

MR. H. W. HARRIE

MR. R. E. WOOD retired from his position as managing director, Felton, Grimwade & Duerdins, Ltd., Melbourne, Australia, recently. Mr. Wood is well known to the trade in this country, particularly on account of his activities in connection with the formation of Drug Houses of Australia Export, Ltd., London, in April, 1935.

Coming Events

Monday, September 12

British Pharmaceutical Conference, 54 George Street Edinburgh, at 5.30 p.m. Opening session. At 5 p.m.: Branch secretaries' meeting. At 8 p.m.: Civic Reception.

Paisley Chemists' Association, Y.M.C.A. Rooms, Paisley, at 8 p.m. Meeting.

Tuesday, September 13

British Pharmaceutical Conference, at 9.45 a.m.: Ladies' excursion. At 54 George Street, Edinburgh, at 10 a.m.: Science session. At 12.30 p.m.: Official photograph taken in St. Andrew's Square Gardens. At 54 George Street, at 1 p.m.: Luncheon. At 2.15 p.m.: Ladies' excursion. At 54 George Street, at 2.30 p.m.: Branch representatives' meeting. At 2.30 p.m.: Science session. At 7 p.m. for 7.30 p.m.: Banquet.

Association of Pharmaceutical Employees, 17 Bloomsbury Square, London, W.C.1, at 8.45 p.m. Dr. Donald Buckle on "The Bourne Case."

Wednesday, September 14

British Pharmaceutical Conference, 54 George Street, Edinburgh, at 9.30 a.m. Branch representatives' meeting. At 9.45 a.m.: Ladies' excursions. At 54 George Street, at 1 p.m.: Luncheon. Sports afternoon. At the University Union, at 8 p.m.: Reception.

Thursday, September 15

British Pharmaceutical Conference, 54 George Street, Edinburgh, at 10 a.m.: Science session. Ladies' excursion. At 54 George Street, at 1 p.m.: Luncheon. At 2.30 p.m.: Science session. At 4 p.m.: Closing session. At 8 p.m.: Supper dance.

Friday, September 16

British Pharmaceutical Conference. At 9.30 a.m.: All-day excursion. At 54 George Street, Edinburgh, at 9 p.m. Dance and cabaret.

NATIONAL ASSOCIATION OF WOMEN PHARMACISTS.—The president and members of the committee are attending the British Pharmaceutical Conference and will be glad to meet any women pharmacists who are attending Conference at tea on the opening day.

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THE
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This Year's Pharmaceutical Conference

After an interval of over a quarter of a century the British Pharmaceutical Conference is again being held in Edinburgh —for the fourth occasion in its history, the first being in 1871, the second 1892, and the third in 1912, when Sir Edward Evans was the chairman and Mr. Thomas Stephenson the local secretary. Many chemists renowned in pharmaceutical circles have been associated with the city, but perhaps none has been held in higher esteem than this year's chairman of the Conference, Mr. John Rutherford Hill, O.B.E., Ph.C. Apart from his efforts on behalf of pharmacy in other ways, over a long period of years he has read many informative papers before science sessions of the Conference, and his address on this occasion will, we are sure, prove an outstanding contribution to the annals of pharmacy. The meeting opens on Monday afternoon, September 12, with the chairman's address, and in the evening there is a reception by the Lord Provost, magistrates and council of the city. A meeting of the branch secretaries is also to be held on the opening day. Wednesday afternoon is to be devoted to sports, while the closing session is timed for Thursday afternoon, September 15. Between these events there are to be four science sessions (at which twenty-one papers will be presented, see *C. & D.*, August 20, p. 185), two meetings of delegates of the branches of the Pharmaceutical Society and a number of social functions, including a banquet, reception at the university, and visits to various places of interest. To conclude, on Friday there is to be an all-day excursion to the Perthshire Highlands, with a dance and cabaret in the evening.

When the Conference last met in Edinburgh, the papers were presented and discussed in either the science or the practice section, but as during the intervening years the Conference has become a part of the Pharmaceutical Society instead of an independent body, the latter section is now a meeting of representatives from branches of the Society. On the agenda this year are ten resolutions. Tees-side has submitted a code of ethics for pharmacists. This has already been criticised and is likely to lead to an interesting discussion. The Branch is also raising the question of possible action by the Pharmaceutical Society in regard to advertisement of pharmaceutical services, where the advertisement might imply a defamation of competitors or disparagement of their products or in any way lessen the feeling of security provided by the chemist's qualification in the mind of the public. Birmingham is of the opinion that the Pharmaceutical Society "should confine itself to its proper functions, examining, legislative and administrative, there being no longer any reason why the School of Pharmacy should continue to be conducted by subsidy from the Society's funds." The Bradford and District Branch is responsible for two motions, one calling attention to the need for the setting up of machinery for the organisation of pharmaceutical employees within the framework of the Pharmaceutical Society, and the second to the effect that the method of co-opting members to the Council should be abolished and a by-election held when a vacancy occurs, while Plymouth considers that a member should be co-opted to the Council only by selection of the candidate next in order on the list at the previous annual election. The resolution from the Liverpool Branch and an amendment to it from Norwich deal with a scale of salaries for employees. The subject of titles for those who have passed the Pharmaceutical Society's examinations is to be raised by Mansfield, who suggest (1) that all pharmacists should be pharmaceutical chemists, (2) that the present pharmaceutical chemists should be Fellows of the Society; while the amendment from Leeds urges that nothing should be done to prejudice the right to the title "chemist" or "chemist and druggist" or "druggist." The resolutions from Manchester and Sheffield deal, respectively, with a superannuation scheme for pharmacists and an appeal for the Benevolent Fund at the Conference. These resolutions present so many controversial points it is not altogether surprising that the chairman need not allow any particular one to be moved if in his opinion there will not be adequate time to discuss it. In that case any motions not moved will stand referred to the Council of the Pharmaceutical Society.

On succeeding pages in this issue will be found a number of articles dealing with Edinburgh and its pharmacists. Under the title of "Edinburgh, the Conference City" is a brief account of some of the places of special interest to pharmaceutical visitors and this is followed by photographs and notes on the Royal Botanic Garden. On other pages will be found photographs of some Edinburgh pharmacies and notes on the wholesale houses.

Dutch Colonial Essential Oils

The annual production of essential oils (turpentine and camphor excluded) in the Dutch East Indies is estimated at about 7,000 tons. Citronella is by far the most important, the output of the Java oil averaging rather more than 2,000 tons a year. The annual value of shipments from the Dutch colony at its lowest is two million guilders, and in 1937 it reached a total of three million guilders. These figures and other information are given in a summary of "The Essential Oils of the Netherlands East Indies," published by Koninklijke Vereeniging Koloniaal Institut, Amsterdam (florins, 1·50). The area under cultivation in Java of *Andropogon Nardus* Linn., the grass from which citronella oil is distilled, exceeds 20,000 hectares (1 hectare = 2·471 acres). Shipments are destined principally to America,

France, Germany, the United Kingdom, Holland and Japan.

Patchouli oil is produced in the D.E. Indies by the steam distillation of leaves of *Pogostemon Cablin* Benth. The most important centre of cultivation is on the western coast of Achin in Northern Sumatra. Formerly the dried and fermented leaves were mostly exported to Malaya for distillation in Singapore and Penang. In 1921, however, distillation was commenced in Achin and the industry has made considerable progress. In 1936 more than 13 tons of oil were exported, and in 1937 the shipments totalled about 22 tons, mostly effected through Java. The chief destinations of the oil were France, the United States of America, European countries and Japan. Fair quantities of leaves are still exported to Malaya. Comparatively little is known of the chemical composition of this oil.

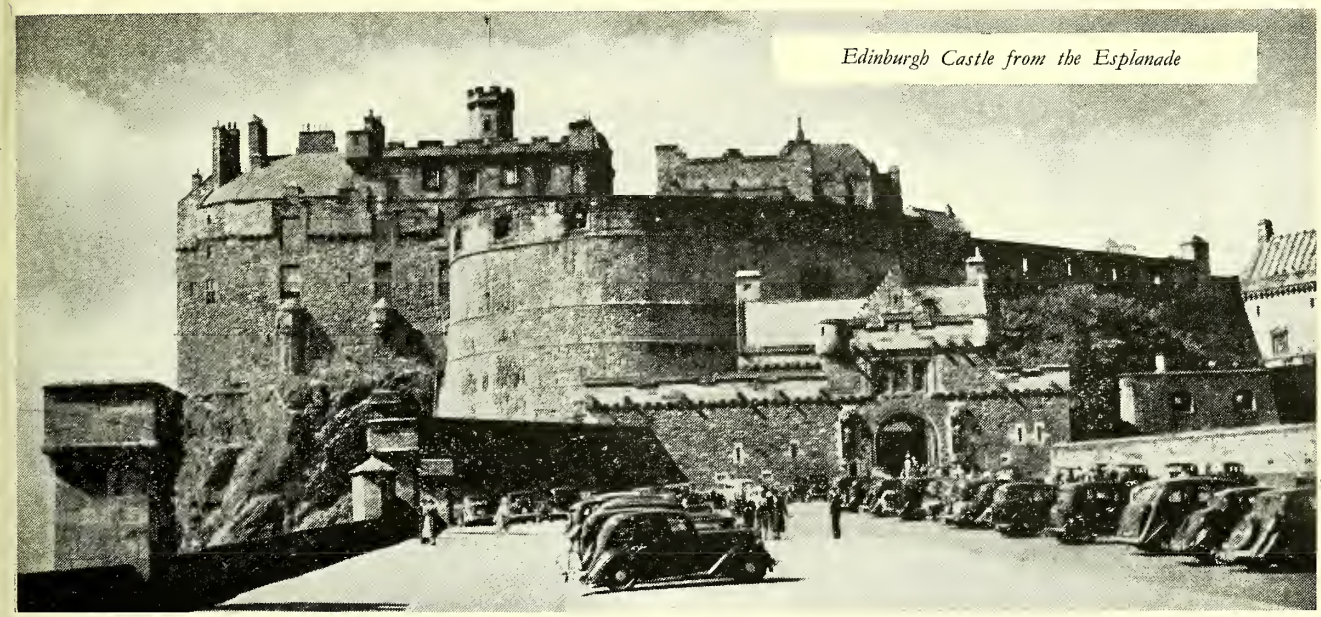
Cajuput oil is distilled from the leaves of *Melaleuca Leucadendron* Linn., which grows in the island of Buru in the Moluccas. The oil is produced under primitive conditions from wild plants. Production varies from 50 to 100 tons a year. Most of the exports go to Singapore, the remainder chiefly to the United Kingdom and Holland. Cananga oil is produced by steam distillation of flowers of *Canangium odoratum Baill.* Ylang-Ylang oil is also obtained from the same plant. Cananga oil is distilled in the Bantam and Cheribou regions of Java. Exports average about 20 tons a year, with the United States of America and France the leading purchasers. Vetivert oil is derived by distillation of the roots of *Andropogon zizanioides* Urban., in the Garut neighbourhood of Java. Production has increased rapidly, with the 1937 output totalling nearly 20 tons. Exports were chiefly destined to France, the United States of America and European countries. Roots are also shipped regularly to France for distillation purposes. Palmarosa and lemongrass oils are also produced in small quantities in the Dutch East Indies, the quantities exported not exceeding a thousand kilograms. Amongst other commodities in production in the Dutch colony are, according to the Amsterdam report, Borneo camphor, which is obtained as a deposit in the wood of *Dryobalanops*, a large tree which grows in Western Sumatra and Eastern Borneo, and lawang oil, which is distilled from the bark of the New Guinea tree, *Cinnamomum*. This oil contains about 70 per cent. eugenol, and is chiefly exported to Holland for the manufacture of vanillin. Production of the following oils have been carried out on a small scale, and investigations are being continued by the Dutch Colonial Institute to ascertain the possibility of their economic production on a commercial basis: Eucalyptus, basil, cinnamon leaf, various citrus oils, wormseed, gingergrass, ginger, clove, nutmeg, geranium and peppermint.

Changing Sources of Supply

When a country, noted for the production of a certain class of manufactured article, ceases to be in a position to offer supplies of that particular type of merchandise on the world's markets, it is usually not a difficult matter for some other nation to step in quickly and meet overseas requirements. It would, in fact, at the moment be difficult to mention even one instance of supplies of a wholly manufactured article not being adequate to meet world needs. With the decline in international trade experienced during the past year or two the output of industry as a whole has been far in excess of the restricted consumption. Neither international nor national disputes have in any way interfered with the maintenance of an adequate flow of supplies of manufactured goods. The position of natural products such as crude drugs and essential oils in the semi-manufactured class is, in some instances, somewhat different. Spain and China were, in normal times, the leading sources of supply for some of these commodities, but as a result of the disturbed conditions in these countries production has failed, partly or entirely. Alternative sources have, in some cases, increased their outputs, but usually the type and quality of the goods have not been fully satisfactory. It is a peculiar point that plant growth which thrives in one country does not usually flourish in other parts although the climate and conditions may be very similar, and, in any case, the resultant crude drug or essential oil is usually different in character.

World supplies of ephedra herb., the consumption of which has increased enormously of late, came chiefly from Spain, with China as a secondary source of material of uncertain quality. A little had been shipped from India in former years. During the past two years Spanish supplies have gradually dwindled, and there has been only irregular and limited shipments of late. Exports from China have so far been fairly well maintained, but may decline in the future. Fortunately, India has increased her shipments very considerably, and is now the leading world supplier of this crude drug. The recent high prices ruling for ergot reflect the dearth of supplies of this product. The Spanish commodity, favoured on this and most other markets, has ceased to be available. Portuguese material has largely taken its place, supported by some Polish and Bulgarian supplies. Little or no Russian ergot is offering, the crop being required for domestic consumption. The possibility of a world shortage of this important commodity before the 1939 crop is available is not remote. Spanish mercury has so far been available through London in adequate quantities. The only alternative big source for this metal is Italy. Of the Spanish essential oils, eucalyptus, spike, rosemary, thyme, sage, etc., the first named was at one time of importance, but during the past few years the Australian oil has been favoured here on account of its cheapness and much improved quality. Lack of supplies of this Spanish oil has caused no inconvenience on this market. The other Spanish oils are all quoted at high prices, and the quantity of genuine products available here is probably very limited. There are one or two minor alternative sources such as, for instance, Tunis rosemary, which is reported to have sold well here.

The position of supplies for this market of China products has not yet become acute except perhaps in the case of wood oil and, to a lesser extent, rhubarb. The high prices ruling for some time past for Hankow wood oil has been due to shortage and uncertainty of future supplies of this product, for which there is no really satisfactory substitute. Limited supplies of rhubarb of various descriptions have been coming along, but the latest advices from the source are to the effect that all stocks at Shanghai have been shipped and no fresh supplies are expected from the interior of China. Shipments of anise oil from the Eastern source have been irregular, and they may be interrupted still more in the future. Some Russian oil has recently been offering here, but the character of this product is not the same as that of the China oil. There has so far been no dislocation in the traffic of Japanese produce to this market, but recent advices from shippers make it evident that quotations may advance on account of the general economic conditions and higher cost of production.



Edinburgh Castle from the Esplanade

Edinburgh—The Conference City

THE history of Edinburgh is the history of Scotland, but Modern Athens sitting proudly above the waters of the Forth is not content to dwell on the glories of the past. There is the stamp of progress in her wide streets and modern shops, emphasised by the big building schemes at present afoot, including a new national library, a new home for Government Departments on a commanding site on the Calton Hill, and new financial houses. In the last ten years the city's building bill has run into many millions and has exceeded that of any other Scottish city, while a rise in the population total is attributed to the incursion of moneyed or retired persons, who, with a choice to make, have selected a city with a total rate of 7s. 11d. in the £ and amenities probably unsurpassed in the Kingdom. These and other attractions are being discovered by increasing crowds of visitors in answer to the cordial "Come to Scotland" invitation. Often one feels that this holiday throng is getting but a bare glimpse of the city and its inhabitants. There is so much to see and so little time in which to see it that they are limited to the usual round of the Castle and Holyroodhouse, with a quick trip to the Forth bridge or the Trossachs.

The Castle and Holyroodhouse

Certainly one would not like to miss the Castle, which, by the way, will be illuminated for the benefit of delegates during the Conference. The rugged pile, sitting serene above the rush and bustle of modern life, makes a call which is not easy to resist, and inevitably the visitor's feet will turn towards the Shrine, that wonderful tribute and memorial to the sons and daughters of Scotland who fell in the Great War. Thousands of words have been spoken or printed in praise of the Scottish National Memorial, but no words can capture the atmosphere or express that feeling of reverence which falls soothingly like a mantle as one crosses the threshold. On emerging into the sunlight again, one feels enriched by a rare experience. From the Castle one descends to Holyroodhouse, and there is no need to elaborate what the guide-books tell. But here again the visitor may not feel inclined to go further afield and climb the height of Arthurs Seat, which rises behind the Palace. There are several paths by which the ascent may be made, and if the weather be fine the view is recompense for the energy expended. As Scott says in "Marmion":—

> "Yonder the shores of Fife you saw ;
> Here Preston Bay, and Berwick-Law."

He might have added that away to the north rise the Ochils and the Grampians, while on occasion one may even glimpse far away Ben Lomond. A photographic panorama presented to the city by Mr. W. Mair, an account of which

View of the Palace of Holyroodhouse

appeared in THE CHEMIST AND DRUGGIST, January 2, 1937, page 3, includes a geographical disc and an indicator which gives the points of interest in the landscape.

Chemist's Shop for 238 Years

While one is in the vicinity of the Royal Mile there is a sign in the Grassmarket of especial interest to pharmacists. A chemist's shop bears under the name H. B. Wyllie an inscription: "Oldest chemist business in Scotland. Established 1700." (Picture, page 268). Mr. C. G. Drummond, who is the present owner, and incidentally secretary of the committee responsible for the local preparations for the Conference, says that the claim is well authenticated, and that for 238 years a chemist's business has been carried on in the premises. A remarkable span, when one thinks that the premises were already old when they echoed to the tramping of Prince Charlie's Highlanders as they passed down the High Street in the ill-fated "'45."

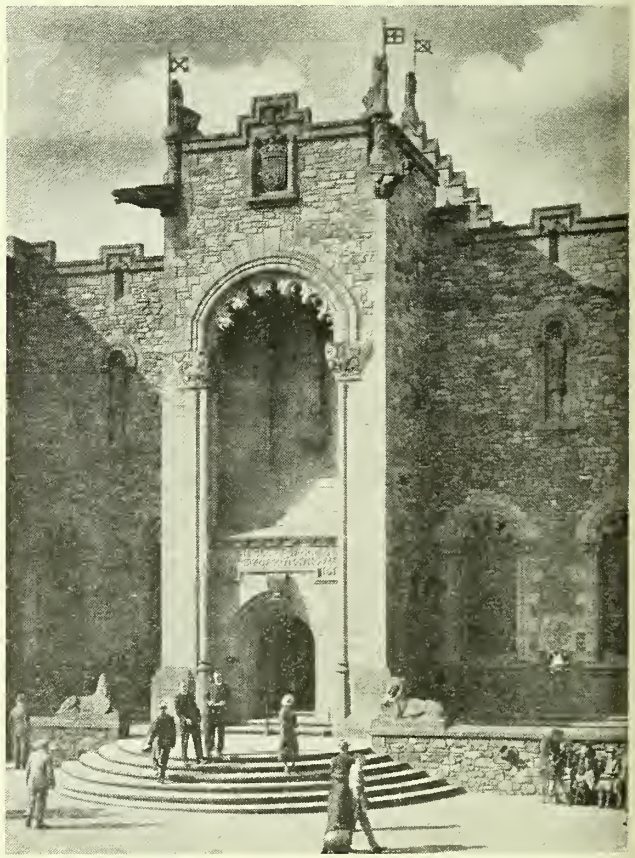
A Saint's Well

One can follow the guide-book in glimpsing the romantic past of the Scottish capital, but it should be remembered that some of the byways are also worth frequenting. There is St. Bernard's Well, shorn of some of its former glory, yet still well worth a visit, particularly by those interested in curative waters. Edinburgh perhaps may be a little neglectful of one of her treasures here; many towns have established a reputation, among those who "take the waters," with less to offer.

Saint Bernard's Well

In the eighteenth and nineteenth centuries fashionable Scotland flocked here, and the "Edinburgh Advertiser" of 1764 recorded that "as many people had got benefit from using the water of St. Bernard's Well, there has been such a demand for lodgings this season that there is not so much as one room to be obtained, either at the Water of Leith or its neighbourhood." The design for the building, which is situated in the valley of the Water of Leith below Dean Bridge and not very far from Princes Street, was taken from a temple at Tivoli, in Italy, and a statue of Hygeia, the goddess of health, was placed in it when it was built. The well takes its name from its association with St. Bernard, who lived in a cave nearby, and the charge for the water is a modest penny per glass. It is well worth sampling, and a few minutes' detour while on the journey to the Botanic Garden, another certain centre of pilgrimage, will suffice.

One of the items on the programme is a tour through the Covenanters' Country, the haunt of those sturdy defenders of the Scottish faith who resisted the attempt to impose an Episcopal prayer-book, and paid for their devotion by death or harsh sentences of transportation.



Entrance to Scottish National War Memorial

The point at issue was the rejection of Laŭd's Episcopal Prayer Book, and after the Restoration of 1660 they suffered grievous persecution. Despite a stern baňň and the presence of troops, men, women and children attended conventicles in the hills and moors to worship God according to the faith of their fathers, often to suffer grievously by the sword. The Pentland Hills, which harboured the martyrs many times, rise to the south of the city, and, as one follows the pleasant road to Peebles, there are fine views of the "hills of home," as R. L. Stevenson wrote longingly in far-away Samoa.

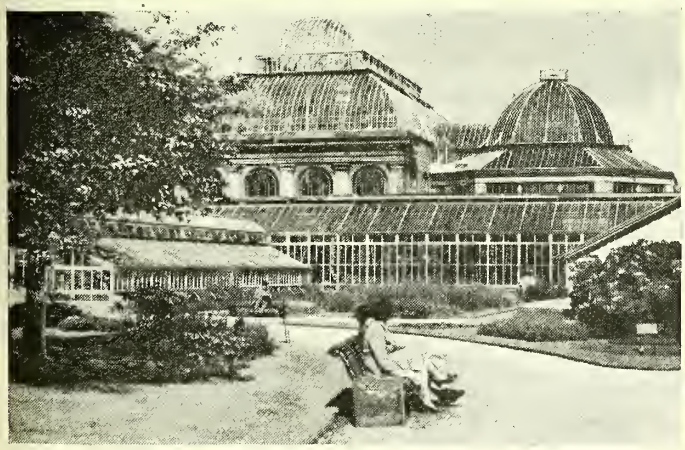
The battlefield of Rullion Green, where the Covenanters' army was put to flight, is on the slopes of the hill above Glencorse Reservoir, Hugh Miller's "true Highland glen" and one of the loveliest sheets of water in South Scotland.

"The Killing Times"

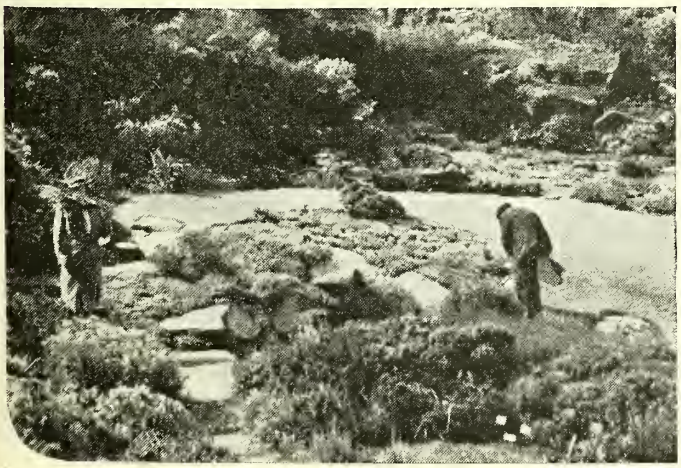
The Covenanters, in the hope of recruiting their forces and adding to their equipment, had marched upon Edinburgh, but found a chilliness where they had expected warmth. Instead of going forward they turned aside at Colinton and crossed the hills, to turn south towards their native moors. Dalziel gave battle, and after winning the first brush the Covenanters were out-manœuvred and suffered death. Here and there on lonely moors one stumbles across a stone or a cairn testifying to the valour of those who were slain during the "killing times," one of the ugliest and bravest pages in Scottish history.

Royal Botanic Garden, Edinburgh

Above.—*View in the arboretum.* Right.—*Section of the herb garden.*



Above.—*All-glass palm houses.* Below.—*Part of the rock garden.*



THE Royal Botanic Garden, Edinburgh, which was founded in the seventeenth century, is situated in the heart of the city. The close connexion which exists between the Royal Botanic Garden and the University department of botany combines the purely scientific with the more practical aspects of botany and horticulture. The Garden is equipped with modern laboratories, large lecture hall in the same building, and a library of over 17,000 volumes, thus providing excellent facilities for students and research workers. Although artificially constructed, the pond in the garden is fed by natural springs and offers one of the greatest attractions to visitors. It contains a large variety of aquatic plants and possesses a marginal fringe of marsh-loving plants. The needs of the students are catered for in the Students' Collection, which is laid out in long rectangular beds, each containing plants belonging to one natural order. This section contains many familiar British plants and also medicinal herbs, which were perhaps more familiar during the Middle Ages. The Garden museum has numerous exhibits which illustrate the life histories of plants arranged in an order which facilitates their use in teaching. Some of the more important economic plants and their products, which can be seen in the museum, include drugs, fibres, timbers and dyes. The

different plant houses, which are grouped together in a corner of the Garden near the laboratories, date from the year 1832, and include the following: Alpine House.—This is worthy of a visit at any time of the year, as there are some specimens in flower at all seasons. Mountain floras of various regions are represented. The indoor rock garden, formed from small terraces of red sandstone, makes an appropriate setting. Succulent House.—Those to whom such plants as cacti and agaves have an appeal will find much to interest them in this house. Economic House.—Here an opportunity is provided for examining tropical plants, which are sources of several domestic commodities. Plants such as eucalyptus, castor oil plant and nux vomica are included. Familiar fruits are represented by banana, fig, citron and pomegranate, and plants which provide tea, coffee, sugar, rice, etc., are also included. *Luffa cylindrica,* the veins of which form the bath loofah is also to be found in this house. Among the other plant houses might be mentioned the Insectivorous House, containing rare specimens of pitcher plants, etc., Orchid House, Fern House and the Temperate Shrub House.

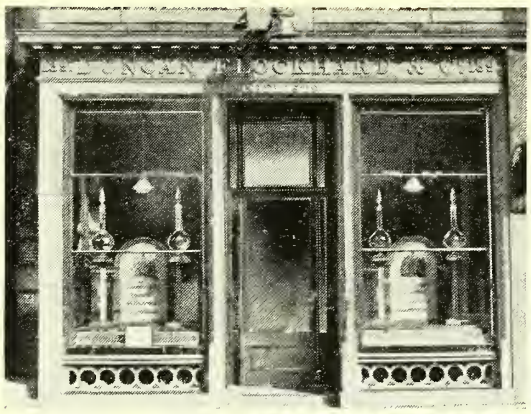
Edinburgh Chemists' Associations

Trade Association

AFTER the British Pharmaceutical Conference in Edinburgh in 1892, the local organising committee decided to form an association. This was given the title of the "Edinburgh District Chemists' Trade Association." Its activities covered practically the same area as now comes under the Edinburgh and South-Eastern Branch of the Pharmaceutical Society. Mr. Peter Boa, who had been local secretary for the Conference, was elected president of the new organisation, and Mr. C. F. Henry, who had been assistant local secretary, was elected its first secretary. The Association is still nominally in existence, but since the setting up of the Society's Branch practically all the activities and work of the Association have been taken over, and have become part of the work of the Branch. For many years the Association took an active part in pharmaceutical affairs and did excellent work, especially in relation to trading questions, notably in its efforts to bring about an agreement on prices and hours, and in promotion of the Proprietary Articles Trade Association scheme. Under the Shops Act the Association secured an Order by the Town Council excluding chemists from the exemption permitting chemists' shops to be open on the half-day, and also an Order requiring all chemists' shops to be closed not later than 7 p.m. on weekdays. The Association also took an active part in the formation of the Federation of Local Associations, and it was a resolution passed by the Edinburgh District Chemists' Trade Association that led ultimately to an alteration in the constitution of the Conference. The Association also did much to promote social and friendly relationships among pharmacists. The annual excursions to the Highlands, the lochs, "doon the watter" or to the borders were occasions of happy fellowship. Sometimes the pharmacists from Western districts joined in a common festival day. Another activity was the annual Burns supper, which was made the occasion for a special appeal and collection for the Pharmaceutical Society's Benevolent Fund.

Chemists', Assistants' and Apprentices' Association

With this year's Conference chairman as "father" (in the sense of oldest member), the Edinburgh Chemists', Assistants' and Apprentices' Association has a long and proud record of interest in pharmacy, more particularly in its scientific and educational aspects. It was formed under that title in 1870, from which date Mr. Rutherford Hill can trace an unbroken connexion, but it grew out of an earlier Wilsonian Association formed by Edinburgh assistants in 1862 in memory of Professor George Wilson, under whom many had studied chemistry. The Association has been notable in encouraging educational progress by awards of scholarships and prizes, and among those who received their early pharmaceutical training in competing for these awards have been many well-known names, such as George Senter (a former Jacob Bell scholar and subsequently principal of Birkbeck College, London). The winter programme of the Association invariably includes many original scientific papers, while botany rambles are still a well-supported feature of its summer season.



Some Edinburgh Pharmacies

H. C. Baildon & Son, 73 Princes Street.
Duncan, Flockhart & Co.,
139 Princes Street and 6 North Bridge.
Lindsay & Gilmour, 11 Elm Row.
George Lunan, 20 Queensferry Street.
D. McLaren (J. B. Mitchell),
58 South Clerk Street.
John H. Macpherson,
2 Craiglockhart Road, North.

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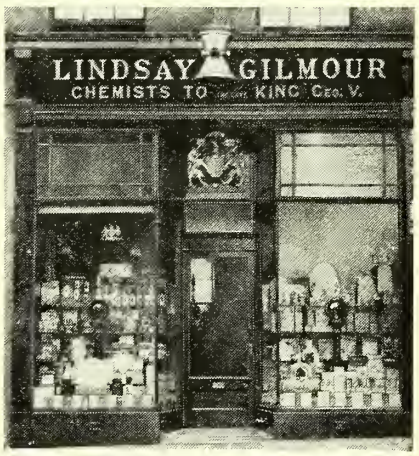

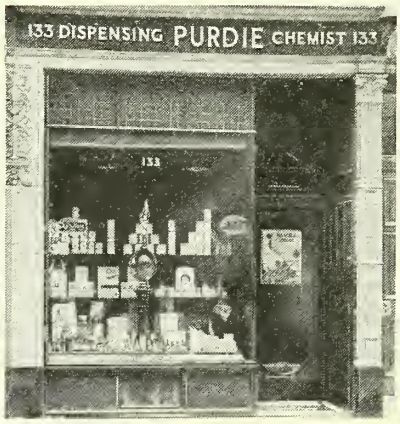

More Edinburgh Pharmacies

Miss Isabella A. Purdie,
133 *Bruntsfield Place.*
Miss O. W. Scarlett, 41 *Roseburn Terrace.*
Smith & Bowman, 3 *Duke Street, Leith.*
G. Somerville (J. C. Somerville),
2 *South Clerk Street.*
A. K. Stewart & Co., 1 *Lynedoch Place.*
H. B. Wyllie (C. G. Drummond),
38 *Grassmarket.*

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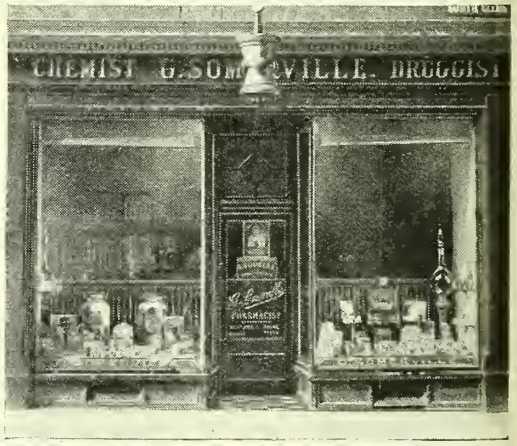

Edinburgh Wholesale Houses

EDINBURGH has played an important part in the history of medicine and pharmacy, and many famous men of both sciences have carried out their studies and worked in the city. Pharmacy owes much to men long associated with Edinburgh, like Duncan, Smith, Macfarlan and Brown, who were pioneers in the manufacture of such products as alkaloids, anæsthetics and galenicals, and whose names are always associated with these materials. The following account gives some idea of the historical development and present-day activities of some of the well-known manufacturing and wholesale concerns in Edinburgh.

John T. Coats & Co.

THE firm was established in 1867 and was taken over by the present proprietor in 1884. The business, while still retaining its position as one of the leading Edinburgh retail pharmacies, has developed an extensive wholesale side which includes the manufacture of a wide range of medicinal preparations and galenicals. The laboratory department includes facilities for the rapid and speedy manufacture of preparations required in small quantities, or for preparations which according to their composition do not keep well. In the technical laboratory, the firm manufactures lysol, soft soaps and disinfectants. During the past few years the company has developed the manufacture of fine chemicals, the most important being salts of caffeine, calcium, mercury, lead and zinc.

Duncan, Flockhart & Co.

OVER a century has passed since the founder, John Duncan, opened his first business in Perth in 1806 ; he was born in 1780. At the age of fourteen he began his apprenticeship to a leading druggist in the Lawnmarket, Edinburgh, and on its completion he proceeded to London. Having acquired sufficient experience, he settled down in Perth. His business continued to make progress, and he managed to secure a double-fronted shop next to Parliament Close, where it was his practice to manufacture as much as he could. Mr. Duncan was now established in a first-rate business, and he took one of his assistants into partnership, the firm becoming known as Duncan & Ogilvie. Later he discontinued the name of "Duncan & Ogilvie" in Edinburgh and substituted, in 1832, "Duncan, Anderson & Flockhart." In 1833, the name of the firm was changed to Duncan & Flockhart, and in 1836 to Duncan, Flockhart & Co., its present designation. Mr. Flockhart, like Mr. Duncan, was a native of Kinross-shire ; he served his apprenticeship at 52 North Bridge, and eventually became a Licentiate of the Royal College of Surgeons, but never practised. When Mr. Duncan felt the time had come to retire from the active management of the business he resolved to divide his share among four of the senior assistants, Newton, Macfarlan, Hunter and Tait, so that Mr. Flockhart remained the senior partner. Professor James Young Simpson, who was responsible for the introduction of chloroform into medicine and surgery, was a frequent visitor to the company's laboratories, where the chloroform was made with which he conducted his experiments ; with the manufacture of chloroform the name of the firm has ever since been honourably associated. Until 1837 the laboratory and manufacturing department was carried on in the arches of North Bridge, but in 1873 new premises were erected in South Canongate to which the manufacturing and wholesale departments were transferred. The West End retail branch was opened in 1845. The present manufacturing premises at 104-108 Holyrood Road, Edinburgh, are spacious and admirably suited for their purpose ; in addition, the company maintains grinding mills and stores at Calton Road, bacteriological laboratories at Bristo Place, and the well-known Pharma Farm at Warriston, near Edinburgh. The London warehouse and offices are centrally situated at 155 Farringdon Road, London, E.C.1. The most prominent feature of the manufacturing side is the plant devoted to the preparation of anæsthetics—chloroform, ether and ethyl chloride—which comprises the most modern and up-to-date methods of production. Duncan's flexible gelatin capsules are, of course, well known ; the gelatin wall is hand-made and therefore readily soluble. This brief description would be incomplete without reference to the vaccines and tuberculins prepared by the research laboratory of the Royal College of Physicians, Edinburgh, and issued by Duncan, Flockhart & Co.

Harkness, Beaumont & Co., Ltd.

JUNCTION Bridge was formed from the original business of Messrs. Anderson & Co., Murano Place, Leith, afterwards at Junction Bridge. A private limited company was formed in 1926, the late Mr. W. L. Beaumont was appointed chairman, and the late Mr. R. J. Goudie, managing director. A number of the staff of the firm of Messrs. Harkness & Beaumont acquired shares in the company. The present board of directors consists of Mr. John J. Laurence, chairman, Mrs. J. C. Goudie, Mr. James Finlayson, Mr. Matthew Gowans, and Mr. David Kerr, and the directors have all been in the drug trade for very many years, ranging from thirty to forty-seven. The manufacturing laboratories are situated along the riverside at the Water of Leith and are well equipped for the manufacture and packing of the company's special lines which are well-known throughout the retail trade. Special storage is reserved for malted barley and for the maturing of cascara bark, the preparations of which constitute a considerable amount of the company's business. An up-to-date machine-room for the printing of labels and show-cards is provided, and "our slogan" show-cards are turned out to suit customers' requirements. Considerable alterations and additions were made to the buildings lately, and the wet room and sundries packing rooms are now housed in the new building, while the patents room and dry room occupy the top storeys. A recent block of buildings at the riverside contains the malt plant and special vacuum mixers for the production of malt products.

Andrew Kinross, Ltd.

THE late Andrew Kinross, who died in 1919 aged eighty-four years, was probably the oldest lithographic printer and the last of the old school of master lithographers in Edinburgh. Mr. Kinross started this business over fifty years ago, specialising in chemists' labels and folding cartons. He claimed to have evolved the method of making folding cartons which is in use to the present day. He was well known to chemists all over the country, and particularly in London. In 1929 the firm removed from St. James Place to larger premises in Broughton Market, and in 1937 the business was formed into a limited company.

J. F. Macfarlan & Co.

TAKES its name from John Fletcher Macfarlan, who, born towards the end of the eighteenth century, took over in the early years of the nineteenth an Edinburgh pharmacy founded in 1780. He held the diploma of the College of Surgeons of Edinburgh, was president and later treasurer of the Royal Medical Society, was a bailie of the City, and became acquainted with many notable characters of his day, among them Lord Macaulay. Morphine was first isolated by Sertürner in 1816, and Dr. William Gregory, of Edinburgh University, worked out a laboratory process for the manufacture of the muriate and convincingly showed its many advantages over opium or labdanum. It was very shortly after the appearance of Gregory's paper in 1832 that the firm began to turn out morphine muriate and acetate in a pure state and on a commercial scale. D. R. Brown, the first, who joined Macfarlan about 1830, was responsible for this, gradually altering Gregory's process and devising the necessary plant. Opium proved to be the "coal tar" of the pharmaceutical trade, and many alkaloids were isolated from it. Apomorphine, first discovered in 1869, proved an invaluable addition to materia medica as an emetic and expectorant. Macfarlans' were the first to make it on a commercial scale. The first D. R. Brown kept before him the general question of the extraction of active principles. Since the recognition by Sir James Young Simpson of the "blessing to mankind that lurks in the sweet vapour of chloroform," the firm has assiduously striven to bring this product ever nearer to perfection in purity and stability. D. R. Brown, it is stated, was the first to observe the preservative action of alcohol on chloroform. The manufacture of ether in quantity was commenced even before that of chloroform, and since its use in anæsthesia became general the firm's brand has been well known. In the sixties D. R. Brown was joined in the management of the business by his son David ; and with him and the firm, Lister worked in full confidence. From Lister's time they have manufactured surgical dressings. Among the products which Messrs. Macfarlan make on a large

scale may be mentioned chrysarobin, salicin and strychnine, for the production of which there are extensive plants in their modern factory at Northfield, Edinburgh. D. Rainy Brown, grandson of D. Rennie Brown, and so the third of the name in succession, became a partner in 1901. Since Mr. D. Rainy Brown, the third, died in 1921, the affairs of the firm have been managed by Mr. A. S. Birnie and Mr. T. J. Johnston, who are now assisted by Mr. D. R. Brown, the fourth, who joined the staff in 1927, and now manages the London office, from which the English and export trade is handled. His brother, Mr. N. R. Brown, joined the firm in 1932.

G. F. Merson, Ltd.

ST. John's Hill Works is the centre of an industry which, although it cannot be classed as pharmaceutical, is a direct offshoot of pharmacy and is of considerable interest to chemists. During the war it became evident that the British stock of surgical catgut was running out and that there was no organised home manufacture from which fresh supplies might be drawn. Mr. Merson, the founder of the company, began to experiment in Edinburgh and before the war came to an end he and his assistants were supplying sterile catgut in large quantities to the Government and to British hospitals at home and abroad. This business is the only one in the British Empire devoted solely to the production of surgical sutures and it is now carried on under the direction of Mr. E. Holder, Mr. Merson having recently retired. Large quantities of first quality sheep gut are used, but in the interests of surgical safety each strand is treated as though it had a bad bacteriological reputation and passed through stringent processes which lead up to a condition of complete sterility. The finished catgut answers the tests for sterility required by the regulations under the Therapeutic Substances Act ; it is supplied in various packs to meet the requirements of hospitals and individual surgeons.

The North British Rubber Co., Ltd.

IN 1856, a small syndicate known as Norris & Co., started the manufacture of rubber products in a former silk factory which is now known at home and abroad as Castle Mills. In 1857, the present title of the firm was substituted. The product of Castle Mills best known to chemists, is, perhaps, the North British hot water bottle. Another important line is vulcanite combs, of which the company is one of the largest makers in the country. Druggists' sundries, including sponge bags (in endless variety), water beds, pillows and cushions, douches, air pillows, vulcanite fittings, celluloid developing dishes and rubber corks are among the many products of Castle Mills. Particular mention should be made of waterproof sheeting for which the company is a contractor to many official bodies, hospitals and other institutions.

Pinkerton, Gibson & Co., Ltd.

THIS company originated early in the seventies, when Richard Clark (who afterwards became principal of Raimes, Clark & Co.) entered into partnership with William Pinkerton, and so founded the firm of Clark & Pinkerton, carrying on business as wholesale druggists at Greenside Place, off Leith Street. In 1888 Mr. Pinkerton was joined by Mr. Adam Gibson, F.C.S., who continued the business with marked success after his partner's death. Mr. Gibson was a prominent Scottish pharmacist, was appointed a member of the Board of Examiners for Scotland in 1882, and served in that capacity for many years. The company is well known to Scottish chemists for galenicals, chemists' packed lines, sundries and proprietaries.

Raimes, Clark & Co., Ltd.

THIS firm has the distinction of being the oldest established wholesale house in Scotland, being founded so far back as 1816. The name of "Raimes" has been and is a household name to generations of chemists in Scotland and the North of England. The brothers John and Richard Raimes were the founders. Richard Raimes became a member of Council of the North British Branch in 1857 and was president during 1857-60. In 1857 George and Thomas Blanshard were assumed as partners. George took a very active interest in the Society and became a member of the Council of the Branch. After having occupied premises in Union Place, and Fyfe Place, extensive ground was purchased at Smith's Place, Leith Walk, and suitable offices, warehouses and laboratories were erected and having ample space accommodation further buildings have been added from time to time. In 1888, when Mr. Richard Clark joined the firm on the dissolution of Clark & Pinkerton, the firm then became known as Raimes, Clark & Co. On the death of Mr. Richard Clark in 1907 the firm was converted into a limited liability company, and after a brief period under Mr. W. A. Davies, Dr. George Coull was appointed managing director. Under his able direction the scientific and manufacturing side of the business was greatly extended. Since the death of Dr. Coull in 1934, Mr. James Innes, who is a member of the Council of the North British Branch has been manager, assisted by his co-directors Mr. J. P. Gibb, Mr. J. G. Fraser and Mr. M. V. Hunter, the last-named being in charge of the laboratories and manufacturing side of the business. In the laboratories, as well as the production of galenicals and pharmaceutical preparations, hand made capsules are produced. Noteworthy on the manufacturing side of the business is the plant for the preparation of potassium iodide.

T. & H. Smith, Ltd.

THOMAS SMITH, the founder of the firm, had qualified as a physician and surgeon, but showed throughout his life an intense interest in the extraction and manufacture of drugs, as well as in their application. In 1827 he opened a retail pharmacy at 61 Pleasance, Edinburgh, in which rough provision was made for pharmaceutical research. Larger premises were secured nine years later at 21 Duke Street. Here he was joined by his brother Henry, and the two enthusiastically prosecuted researches dealing on the one hand with opium and on the other with such natural extractives as capsicum, jalap and scammony, to mention only a few. From that time to the present the history of the firm has been one of steady expansion. The retail business was discontinued in 1900, and the factory, hitherto in Canonmills, Edinburgh, was, in 1908, removed to the present extensive site at Wheatfield Road. To facilitate English and export trade, a warehouse was established in London in 1848, and in 1902 a depôt was opened in Glasgow to serve the West of Scotland. From time to time agencies have been established abroad and are now to be found in almost every country. Whilst perhaps T. & H. Smith, Ltd., are most famed for the manufacture of fine chemicals, practically all the more usual products pertaining to the pharmaceutical trade are made. They also market several proprietary medicines. Particular attention was paid from the very beginning to the isolation of natural products. Even to-day this aspect of manufacture bulks more largely than the production of purely synthetic chemicals, although the disproportion grows steadily less. Perhaps the most important group of manufactures is that of vegetable alkaloids. For a number of years T. & H. Smith have, with another Edinburgh firm, been licenced by H.M. Government, under the Dangerous Drugs Act, to manufacture morphine, codeine and certain other opium alkaloids. Strychnine and its salts are also made in large quantity, most of these products being exported to the colonies. Physostigmine, atropine, hyoscyamine and ephedrine are just a few of the other alkaloids made. Chloroform has been one of the firm's special manufactures since its introduction as an anæsthetic. The making of the allied chloral hydrate is a much more recent venture, and new plant has recently been laid down for the production of this on a large scale. From time to time T. & H. Smith have been responsible for introducing new chemicals and active principles to the drug market. An example of the latter is aloin, which is still one of the firm's manufactures. Inorganic chemicals have also received attention, the most important member of this group being bismuth and its salts. In addition to the isolation and synthesis of active principles and fine chemicals, a considerable portion of the Edinburgh premises is devoted to the making of standardised extracts and tinctures, the powdering of crude drugs, and the production of tablets, pills and ointments.

Stewart, Goodall & Dunlop, Ltd.

ARE manufacturers of toilet specialties of a high standard. They have for many years been known as the manufacturers of "Nuctone for Grey Hair," one of the few hair dyes not containing a scheduled poison. Their Stewarts tone shampoo powders include the following range: Hairtone, Silvertone, Goldentone, Hennatone and Pinetone. Nucta Hair Gleam is their latest retail line. It is a non-oily lotion for brightening faded hair. Nucta Oil Shampoo is a preparation intended for salon use. Nucta lotions and creams are also made and are of the highest standard, most of them being manufactured according to formulas submitted to and approved by dermatologists.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, September 8

In some directions there has been more business moving this week, but the general tone continues distinctly quiet and it is evident that, although the international political position is not quite so unsettled as it was a week ago, there is still but little confidence in the outlook. Holders of stocks are aware they cannot replace at present keen spot prices and are therefore not pressing for business. Consumers, for their part, seem content to restrict their purchases to immediate requirements, but it is thought that, whatever the conditions during the next few weeks, business should show a fair improvement. The higher exchange value of the American dollar against sterling is reflected in the very steady tone in products from that source. Business in Pharmaceutical Chemicals continues on modest routine lines with conditions fairly steady. There are, however, some weak features which are mostly confined to products which have to be imported. Makers' prices for limited quantities of Strychnine Salts do not appear to be affected by competition. Home trade prices for Vanillin have been reduced.

Crude Drugs

There has been quite a fair amount of consumers' orders for some products this week while other items remain neglected. The general tone is very steady with no indication of any weakness in spot values ; in fact, given a better general trade, quotations for goods for immediate delivery may well advance in a number of instances. Spot holders of Agar are fully maintaining their prices in view of the dear shipment market. The recent high prices for Curaçao Aloes are firm with spot supplies very low and no shipment offers. Other descriptions of aloes are neglected. Actual business in Cascara Sagrada has again been quiet but spot and forward prices are keeping fully steady. Desiccated Coconut shows some recovery from recent declines in value. Recent quotations for Portuguese and Polish Ergot are being maintained, although business remains quiet. More business from consumers of Menthol, and the market continues steady. Firmer conditions are reported in Pimento. Business in Rough Round Rhubarb continues on spot ; no shipment offers of any description. Senega is keeping steady, although business has been quiet.

Essential Oils

Quiet conditions with some items unsteady are reported in this market. A few products have met with a little better demand from consumers. Anise (Star) is steady at current prices on spot. The demand for Bergamot seems to continue negligible. An unofficial report from the source states there is very little likelihood of any reduction in shipment prices. Cananga and Cassia are weak markets. All descriptions of Clove are steady on spot. Bourbon Geranium is irregular, while the Algerian product is fairly steady. No definite offers of new crop Lavender, but a figure of 250 francs per kilog. has been indicated for a good quality oil. The source reports that Sicilian hand-pressed Lemon is dearer and firm; spot stocks of good oil are very low. Olive continues fully steady. French Guinea Orange is being offered on spot and for shipment at cheap prices, but the demand is reported to be poor. Singapore Patchouli is irregular and weak, due to cheap offers of Java oil. Japanese Peppermint has sold fairly well on spot with prices quite steady ; shippers' quotations are also well maintained.

Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	September 1	September 8
Amsterdam	Fls. to £	12·107	8·91¾	8·92½
Berlin	Mks. to £	20·43	12·12	12·02
Brussels	Belgas to £	nominal	28·75	28·60
Copenhagen	Kr. to £	18·159	22·40	22·40
Lisbon	Esc. to £	110	110¼	110¼
Madrid	Ptas. to £	25·24½	nominal	nominal
Milan	Lire to £	92·46	92½	91 11/16
Montreal	Dols. to £	4·86¾	4·85¾	4·83
New York	Dols. to £	nominal	4·85½	4·82
Oslo	Kr. to £	18·159	19·90	19·90
Paris	Fr. to £	124·21	178¾	178¼
Prague	Kr. to £	164·25	140½	139½
Stockholm	Kr. to £	18·150	19·40	19·40
Warsaw	Zloty to £	43·38	25⅞	25½
Zurich	Frs. to £	25·2115	21·30	21·30

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

The markets continue generally quiet with business slow. Quoted prices are keeping fairly steady. Glycerin, B.P., is steady at the reduction recorded last week. Vanillin is cheaper.

Acetanilide.—Market quiet, quoted unchanged: B.P. crystals and powder, 1s. 7d. to 1s. 10½d. per lb., as to quantity.

Amidopyrine.—Market very irregular on quotation: crystals, two cwt., 9s. 4d.; one cwt., 9s. 8d.; less than one cwt., 10s. per lb., with powder 2½d. per lb. extra.

Ammonium ichthiosulphonate.—One cwt., 1s. 6½d., in 14-lb. tins; 1s. 8d. in 1-lb. tins ; 1s. 10d. in 8-oz. tins, and 2s. 1d. per lb. in 4-oz. tins.

Aspirin.—Makers' and dealers' prices are steady: home trade, ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d.; 28 lb., 3s.; 14 lb., 3s. 1½d.; 7 lb., 3s. 2¾d.; 4 lb., 3s. 4½d.; 1 lb., 3s. 7d. per lb. Bulk packing free, net, carriage paid. Contracts over twelve months, minimum one ton ; over six months, less than one ton.

Barbitone.—Dealers' prices keen, demand small: two cwt., 8s. 11d.; 56 lb., 9s. 2d.; less than 56 lb., 9s. 5d. per lb., ex store.

Benzoic acid (B.P.).—Makers' prices steady: five cwt., 1s. 7½d.; one cwt., 1s. 8d.; smaller parcels, from 1s. 9d. up to 2s. 2d. per lb., as to quantity.

Bismuth salts.—Makers' home trade and export scales of prices for these salts continue steady:—

	Net Monthly Account			Net 14 days	
	Under 4 lb.	4 lb. and under 8 lb.	8 lb. and under 28 lb.	28 lb. and under 1 cwt.	Not less than 1 cwt.*
	s. d.	s. d.	s. d.	s. d.	s. d.
Carbonate ... ... (Home Trade only)	8 6	8 0	7 3	6 9	6 6
Citrate	11 10	11 4	10 7	10 1	9 10
Nitrate Cryst.	6 8	6 2	5 5	4 11	4 8
Oxide...	12 11	12 5	11 8	11 2	10 11
Salicylate	10 0	9 6	8 9	8 3	8 0
Subchloride	12 8	12 2	11 5	10 11	10 8
Subgallate	9 8	9 2	8 5	7 11	7 8
Subnitrate	7 10	7 4	6 7	6 1	5 10

* Contracts are booked for 1 cwt. and upwards for delivery over three months and are subject to a rise and fall clause. A rebate of 3d. per lb. is allowed on sales of not less than 2 cwt. (assorted if required) provided delivery is completed within three months. All deliveries ex contract are sold on net cash 14 days' terms.

Borax (B.P.).—Makers' prices steady: granulated, £24 ; crystals, £25 ; powdered, £25 10s.; extra fine powder, £26 per ton, in one-cwt. bags, carriage paid buyers' works for minimum 1-ton lots. Extra for smaller quantities Commercial quality, £8 per ton less for all descriptions.

Boric acid (B.P.).—Makers' prices continue steady: granulated, £36 10s.; crystals, £37 10s.; powder, £38 10s.; extra fine powder, £40 10s. per ton, in 1-cwt. bags, carriage paid to buyers' works on 1-ton minimum. Commercial quality, £8 per ton cheaper for all descriptions.

Bromides.—Makers' scales of prices steady. Potassium, B.P., five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s. per lb. Sodium, B.P., five cwt., 1s. 10d.; one cwt., 1s. 11d.; 28 lb., 2s. 2d. per lb. Ammonium, B.P., five cwt., 1s. 11d.; one cwt., 2s.; 28 lb., 2s. 3d. per lb. net. Resale clause applies. 28-lb. parcels and one-cwt. cases free. Smaller quantities than 28 lb. at higher prices. Export quotations are maintained as follows: Potassium, B.P., five cwt., 1s. 4d.; one cwt., 1s. 4½d. Sodium, B.P., five cwt., 1s. 5d.; one cwt., 1s. 5½d. Ammonium, B.P., five cwt., 1s. 6½d.; one cwt., 1s. 7d. per lb., f.o.b.

Butyl chloral hydrate.—Quoted unchanged: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

Caffeine.—The scales for Continental material, duty paid, in 5-lb. tins, are as follows:—Pure alkaloid, two cwt., 8s. 10d.; one cwt., 9s. 0¼d.; 56 lb., 9s. 2¼d.; less than 56 lb., 9s. 4¾d. per lb. Citrate, two cwt., 5s. 11¾d.; one cwt., 6s. 0¾d.; 56 lb., 6s. 1¾d.; less than 56 lb., 6s. 2¾d. per lb. Soda sal., two cwt., 6s. 2¾d.; one cwt., 6d. 3d.; 56 lb., 6s. 4¾d.; less than 56 lb., 6s. 5¾d. per lb. English makers' prices as follows: Pure alkaloid, two cwt., 9s.; one cwt.; 9s. 2d.; 56 lb., 9s. 4d.; less than 56 lb., 9s. 6d. per lb. Citrate, two cwt., 5s. 11d.; one cwt., 6s.; 56 lb., 6s. 1d.; less than 56 lb., 6s. 2d.

Chloral hydrate.—Steady at makers' prices: duty paid crystals, in 14-lb. free containers, five cwt., 3s. 2d.; one cwt., 3s. 3d.; 28 lb., 3s. 4d. per lb.; 28-lb. jars one penny per lb extra.

CITRIC ACID (B.P. CRYSTALS).—Makers' prices continue steady: British material quoted at 1s. 0¼d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

COCAINE.—British makers' prices for wholesale bulk quantities are quoted as follows:—HYDROCHLORIDE and NITRATE, 25 oz. and over, 29s. 6d.; 16 oz. and less than 25 oz., 30s. 9d.; over 8 oz. and less than 16 oz., 31s. 9d. per oz. PURE, CITRATE and SALICYLATE, 25 oz. and over, 32s. 6d.; 16 oz. and less than 25 oz., 33s. 6d.; over 8 oz. and less than 16 oz., 34s. 6d. per oz.; 16-oz. packages free, smaller packing extra. The scales of prices applicable to distributors of smaller quantities are as follows:—HYDROCHLORIDE and NITRATE, 8 oz., 34s. 1d.; 4 oz. and less than 8 oz., 34s. 7d.; 2 oz. and less than 4 oz., 35s. 5d.; 1 oz. and 2 oz., 36s. 5d.; ½ oz. and less than 1 oz., 37s. 11d.; ¼ oz. and less than ½ oz., 40s. 11d. per oz. PURE, CITRATE and SALICYLATE, 8 oz., 36s. 10d.; 4 oz. and less than 8 oz., 37s. 4d.; 2 oz. and less than 4 oz., 38s. 2d.; 1 oz. and less than 2 oz., 39s. 2d.; ½ oz. and less than 1 oz., 40s. 8d.; ¼ oz. and less than ½ oz., 43s. 8d. per oz., packages extra. Resale: Sales subject to buyers undertaking not to resell any quantity below the scale prices for such quantity current at the time of resale. Export prices vary according to destination.

CREAM OF TARTAR.—Steady as quoted: British material, 99 to 100 per cent., 92s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

EPHEDRINE.—Makers' prices for HYDROCHLORIDE, B.P., are keeping very steady and a fair inquiry continues: quoted from 6s. per oz. for minimum 1,000-oz. lots; smaller parcels, up to 7s. Pure alkaloid is unchanged at 7s. 9d. to 8s. 6d. per oz., as to quantity.

GALLIC ACID.—Market is quoted unchanged: one cwt., 3s.; 56 lb., 3s. 1d.; smaller quantities, up to 3s. 6d. per lb.

GLYCERIN (B.P.).—Makers' scale of prices for all quantities continue at the reduction recorded last week. The new scales are as follows:—

PRICE PER CWT.

Contracts or Spot Lots of		Under 1 cwt.	1 cwt. and under 2½ cwt.	2½ cwt. and under 5 cwt.	5 cwt. and under 10 cwt.	10 cwt. and under 20 cwt.
Minimum deliveries off contract of		—	1 cwt.	1 cwt.	1 cwt.	2 cwt.
Tins, 14 lb. each ...	per cwt.	97/6	93/–	92/–	89/–	88/–
Tins, 28 lb. „ ...	„	94/6	90/6	89/6	86/6	85/6
Tins, 56 lb. „ ...	„	91/6	88/–	87/–	84/–	83/–
Drums, 1 cwt. (charged 20/–)	„	—	83/6	82/6	79/6	78/6
Drums, 2½ cwt. („ 60/–)	„	—	—	80/6	77/6	76/6
Drums, 5 cwt. („ 75/–)	„	—	—	—	77/–	76/–
Drums, 10 cwt. („ 100/–)	„	—	—	—	—	75/6
Extra per cwt. for smaller deliveries ex contract than as above specified	5 cwt. and under 10 cwt.	—	—	—	—	—
	2 cwt. and under 5 cwt.	—	—	—	—	—
	1 cwt. and under 2 cwt.	—	—	—	—	6d.
	Under 1 cwt.	1/–	1/–	1/–	1/–	1/6

Refined Pale Straw Industrial Glycerin, 1·260 S.G. 5/– per cwt. less than chemically pure.

GUAIACOL CARBONATE.—Dealers' prices are unchanged: 8s. 10d. per lb.; bulk quantities obtainable below this figure.

IODIDES.—Makers' prices for salts steady at the former figures. POTASSIUM, B.P.—Not less than 1 cwt., 5s. 3d.; not less than 28 lb., 5s. 6d.; not less than 14 lb., 5s. 9d.; not less than 7 lb., 6s. 3d.; not less than 4 lb., 6s. 9d.; smaller quantities, 7s. 3d. per lb. SODIUM, B.P.—Not less than 28 lb., 6s. 6d.; not less than 14 lb., 6s. 10d.; not less than 7 lb., 7s. 4d.; not less than 4 lb., 8s.; smaller quantities, 8s. 10d. per lb. IODINE, B.P. RESUBLIMED.—Not less than 1 cwt., 5s. 9d.; not less than 28 lb., 6s.; not less than 14 lb., 6s. 3d.; not less than 7 lb., 6s. 9d.; not less than 4 lb., 7s. 5d.; smaller quantities, 8s. 2d. per lb. IODOFORM, B.P., CRYST., PRECIP. OR POWDER.—Not less than 28 lb., 8s. 3d.; not less than 14 lb., 8s. 7d.; not less than 7 lb., 9s. 3d.; not less than 4 lb., 10s. 1d.; smaller quantities, 10s. 11d. per lb. Contracts for 1 cwt. and upwards (assorted if required), with fall clause, for delivery as required during four months. 28-lb. tins and 1-cwt. cases free. All bottles are charged, but will be credited in full if returned, carriage paid, in good condition within three months. Carriage paid on any quantity. It is a condition of sale that buyers undertake not to resell any quantity of the above products at prices or terms below the scale for any such quantity current at the time the resale is made.

LACTIC ACID (B.P.).—A limited business is reported: quantities, in carboys, 1s. 4½d. to 1s. 5d.; in winchesters and bottles, 1s. 6d. up to 2s. per lb., as to quantity.

METHYL SALICYLATE.—Business quiet, makers' prices unchanged: spot, ten cwt., 1s. 1¾d.; five cwt., 1s. 2d.; one cwt., 1s. 2¼d.; less than one cwt., 1s. 3d.; small quantities, in bottles, up to 2s. per lb.

PHENACETIN.—Continues steady, modest demands: crystals or powder, bulk quantities, 2s. 6d.; smaller parcels, 2s. 7d. to 3s. per lb., as to quantity.

PHENAZONE.—Quotations are keen, business slow: crystals, five cwt., 6s. 9½d.; two cwt., 7s.; one cwt., 7s. 3d.; and less, 7s. 6d. per lb., with powder 2½d. per lb. extra.

PHOTOGRAPHIC CHEMICALS.—Home makers' prices are as follows: AMIDOL.—28 lb., 8s.; 14 lb., 8s. 9d.; 7 lb., 9s. 6d., in free 7-lb. tins; under 7 lb., 12s. per lb., in free 1-lb. bottles. CHLORQUINOL.—1-lb., bottles, 21s. per lb. GLYCIN.—7 lb., 10s. 6d.; 1-lb. bottles, 13s. 6d. per lb. HYDROQUINONE.—56 lb., 4s. 10½d.; 28 lb., 5s.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; in 1-lb. bottles, 6s. 6d. per lb. METOL.—28 lb., 9s. 6d.; 14 lb., 9s. 9d.; 7 lb., 10s. 6d., tins free; 3 lb., 12s., bottles free; 1-lb. bottles, 12s. 6d. per lb., bottles free. ALUM (PHOTOGRAPHIC QUALITY).—1 cwt., 21s. per cwt.; 28 lb. for 6s. GOLD CHLORIDE.—15-grain tubes, 45s. per doz. MAGNESIUM POWDER.—10s. per lb. PARAMIDOPHENYL HYDROCHLOR.—8s. 6d. per lb., bottles free. POTASSIUM FERRICYANIDE.—14 lb., 2s. 2d.; 7 lb., 2s. 4d.; 1 lb., 2s. 6d. per lb. POTASSIUM METABISULPHITE.—One cwt., 8d.; 28 lb., 9d.; 14 lb., 10d.; 7 lb., 1s. per lb. PYROGALLIC ACID, CRYST.—28 lb., 7s. 3d.; 14 lb., 8s.; 7 lb., 8s. 9d.; under 7 lb., 9s. 3d. per lb. SODIUM (CARBONATE RECRYST).—5 cwt., 12s. 6d. per cwt.; 1 cwt., 15s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. SODIUM HYPOSULPHITE, CUBES, CRYST.—5 cwt., 17s.; 1 cwt., 19s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. SODIUM SULPHIDE (PURE).—7 lb., 1s. 9d.; 1 lb., 2s. per lb., bottles and jars free. SODIUM SULPHIDE, RECRYST.—One cwt., 21s. 6d. per cwt.; 56 lb. for 13s. 6d.; 28 lb. for 7s.

QUININE SALTS.—Convention prices continue unchanged: sulphate, 2s. 2d.; bisulphate, 2s. 2d.; ethyl carbonate, 2s. 9¾d.; salicylate, 2s. 10½d.; hydrochloride, 2s. 8½d.; dihydrochloride, 3s.; hydrobromide, 2s. 8½d.; dihydrobromide, 3s.; valerianate, 3s. 8d.; hydrophosphite, 4s.; alkaloid, 3s. 0½d. per oz., carriage paid on bulk quantities; 100-oz. tins free, smaller packages extra.

RESORCIN.—Makers' home trade prices are unchanged: crystals, one cwt., 5s. 5d.; 56 lb., 5s. 6d.; 28 lb., 5s. 7d.; 14 lb., 5s. 9d.; 7 lb., 6s.; smaller quantities, up to 7s. per lb.

SALICYLIC ACID (B.P.).—Makers' scales of prices unchanged, business quiet: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 10d.; 14 lb., 1s. 11½d.; 7 lb., 2s. 0¾d.; 4 lb., 2s. 2½d. per lb.

SALOL.—Remains dull, with quotations competitive at about 2s. 1d. to 2s. 6d., per lb., as to quantity.

SANTONIN.—Market is dull and competitive: bulk lots from about £10 5s. per kilo. Smaller parcels, up to £11 10s. per kilo, ex store.

SODIUM BENZOATE (B.P.).—Makers' prices continue steady: five cwt., 1s. 3½d.; one cwt., 1s. 4d.; smaller parcels, from 1s. 5d. up to 2s. per lb., as to quantity.

SODIUM DIETHYLBARBITURATE.—Controlled prices are unchanged: spot, one cwt., 11s.; 28 lb., 11s. 3d.; 14 lb., 11s. 6d.; 7 lb., 11s. 9d.; smaller parcels up to 12s. 3d. per lb.

SODIUM SALICYLATE (B.P.).—Makers' prices steady, demand quiet: home trade, crystals or powder, five cwt., 1s. 5½d.; one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10½d.; 7 lb., 1s. 11¾d.; 1 lb., 2s. 4d. per lb.

STRYCHNINE SALTS.—Makers are meeting competition for bulk orders with prices for the smaller quantities steady at the former figures.

	Under 100 oz.	Under 500 oz.
	Home or f.o.b. British Empire	Home or c.i.f. British Empire
	Per oz. s. d.	Per oz. s. d.
Pure Crystals	1 3½	1 3½
Pure Præcip.	1 3½	1 3½
Acetate	1 10	1 10
Arseniate	1 9	1 9
Arsenite	1 10	1 10
Bisulphate	0 10	0 10
Hydrochloride	1 1½	1 1½
Hypophosphite	3 4	3 4
Nitrate Crystals	1 1½	1 1½
Nitrate Powder	1 1½	1 1½
Nitrate Powder No. 2	0 10¾	0 10¾
Phosphate	2 1	2 1
Sulphate Neut. Cryst.	1 0	1 0
Sulphate Neut. Powder	1 0	1 0
Sulphate Neut. Powder No. 2	0 10¼	0 10¼

25-oz. tins free. Export cases free. 1-oz. bottles 2d. each extra. For export—1 per cent. cash in ten days. Terms: net, 30 days. Contracts cannot be accepted. For export: buyers held covered against price reduction for ten days after arrival of steamer at port of destination.

SULPHONAL.—Keen spot quotations, business small: crystals or powder, two cwt., 15s. 5¼d.; one cwt., 15s. 10¾d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 6d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Quoted unchanged: British makers quote at 1s. 1¼d. per lb., less 5 per cent. discount, dealers offering foreign materials at competitive prices.

VANILLIN.—Convention prices for home trade, ex clove or guaiacol, have been reduced as from September 9, as follows: five cwt., 11s.; one cwt., 11s. 1½d.; 56 lb., 11s. 3d.; smaller quantities, up to 11s. 6d. per lb.

Crude Drugs, etc.

ACONITE ROOT.—Spot supplies of Napellus are reported to be very limited with small parcels quoted up to 110s. per cwt., ex store.

AGAR.—Spot market steady, but quiet except for a fair Continental demand. Shipment market continues at comparatively high figures with good bids refused: spot, Kobe, No. 1, 3s. 3d.; No. 2, 2s. 11d. Yokohama, No. 1, 2s. 10½d. per lb.; shipment, very little Kobe No. 1 offering with 2s. 10d. wanted. A re-sale parcel is available at 2s. 9½d., c.i.f. Kobe No. 2, 2s. 6½d. to 2s. 7d.; Yokohama No. 1, 2s. 7d. per lb., c.i.f. New crop, January-February, 2s. 10½d. per lb., c.i.f.

ALKANET ROOT.—A quiet spot business with dealers quoting spot root at about 45s. per cwt., c.i.f.

ALOES.—The position of Curaçao is becoming precarious as regards supplies: spot stocks are now very small and there are no shipment offers. Cape is steady and unchanged. A parcel of Aden is offering here but there seems to be no interest in this description: Cape, spot, 57s. 6d. to 60s.; shipment, easy at 55s. per cwt., c.i.f. Curaçao, spot, from 167s. 6d. to 175s., as to quality; shipment, 150s. upwards per cwt., c.i.f. nominal. Aden, 57s. 6d. per cwt., ex store.

A report from Curaçao states that the crop gathered during the period April-June, 1938, amounted to only about 1,000 cases of 125 lb. each. This very poor output is stated to be due to shortage of labour, and it has been suggested to the authorities that the importation of Indian workers from Central America should be permitted.

ANTIMONY.—Values level on the week, market quiet: Chinese, crude, spot, £35; shipment, September-October, £30, c.i.f. English regulus, £70 to £71 per ton, ex store.

ARNICA FLOWERS.—Spot supplies are available and quoted at about 1s. 4d. per lb., ex store.

BALSAMS.—Market is dull and quoted unchanged: *Tolu*, 1s. 7½d.; Canada, spot, 2s. 10d.; shipment, 2s. 9d., c.i.f.; *Copaiba*, 1s. 8d.; *Peru*, 4s. 2d. per lb., spot.

BELLADONNA.—Not much business, values steady: leaves, 55s.; root, high test, 55s. per cwt., spot.

BENZOIN.—Market remains quiet: Siam, medium almonds, £26; bean and pea, £20 per cwt., ex store. Sumatra quoted from 70s. to 90s. per cwt., ex store.

BUCHU.—Business continues to be confined to a few odd bales with quotations maintained: spot, rounds, 1s. 5d. to 1s. 7d., as to quality; ovals, 1s. 4½d. to 1s. 5d.; old crop leaves at cheaper prices.

BURDOCK ROOT.—Dealers' prices for spot goods are in the region of 47s. 6d. per cwt., ex store.

CAMPHOR.—Business remains slow, quoted unchanged: Japanese monopoly BB brand, £7 10s. per 100 lb.; Japanese, natural, spot, tablets, 2s. 6d.; powder, 2s. 3d.; slabs, 2s. 2¾d. per lb., ex store; shipment: tablets, 2s. 2d.; powder, 1s. 11¼d.; slabs, 1s. 11d. per lb., c.i.f.; English refined flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ⅓ oz. and ¼ oz., 3s. 6d.

CANTHARIDES.—Fairly steady on a quiet market: Chinese, spot, 2s. to 2s. 2d.; shipment, 1s. 7d. per lb., c.i.f.

CARDAMOMS.—Market is neglected: Mangalore, spot, 3s. 4½d.; shipment, 2s. 9d. Aleppy, spot, 3s. 7d.; shipment, 2s. 11d. Aleppy, greens, this season's, f.a.q., 2s., c.i.f.

CASCARA SAGRADA.—Business continues of little importance but there appears to be no sign of weakness in the market, either spot or forward. There seems to be only one source of shipment offers with the price for 1938 bark firm at 46s. per cwt., c.i.f. Spot, 1938 bark, 52s. 6d.; 1937 bark, 57s. 6d., and 1936 bark, up to 65s. per cwt., ex store, duty paid.

CHAMOMILES.—New crop, first pickings, are available and quoted steadily up to 160s. per cwt., ex store.

CLOVES.—Shipment quotations rather easier. Spot values unchanged, market remains quiet: Zanzibar, spot, 8½d.; shipment, September-October, 8¼d. per lb., c.i.f. Madagascar, in bond, 7⅞d.; shipment, October-December, 6⅞d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended September 3 were *nil*, and the deliveries 347, leaving a stock of 974. From January 1 to date the landings of Zanzibar have been 1,904, and the deliveries 1,989. Landings of Madagascar for the week ended September 3 were *nil*, and the deliveries 4, leaving a stock of 1,561. From January 1 to date the landings of Madagascar have been 1,465 and the deliveries 1,980 packages.

COCONUT (DESICCATED).—Values show some recovery, with the market rather steadier: spot, fine, 16s. 6d.; medium, 16s. 6d. per cwt.; shipment, halves, September-December, 15s. 3d. per cwt., c.i.f.

COD-LIVER OIL.—Bergen reports the shipment market continues dull with quotations about unchanged: finest Lofoten steam-refined non-freezing medicinal oil, 90s. per barrel, c.i.f. London. Small lots, on spot, about 132s. 6d. per barrel, ex store, duty paid. British finest medicinal oil, 115s. per 25-gallon drum, delivered U.K., with rebates for 25 or more drums.

COLCHICUM.—Spot quotations vary as to seller: spot root quoted from 47s. 6d. to 50s. per cwt., as to quantity.

COLOCYNTH PULP.—Freely offered with the demand quiet: spot, from 1s. to 1s. 3d. per lb., as to quality and quantity.

DAMIANA LEAVES.—Dealers are quoting spot supplies of new leaves at about 9d. to 9½d. per lb., ex store.

ERGOT.—Small amount of inquiry and not much actual business transacted. Portuguese, spot, 5s. 7½d. to 5s. 9d.; shipment, new crop, 4s. 7½d. to 4s. 9d., c.i.f. Polish, spot, 4s.; shipment, 3s. 7½d. per lb., c.i.f. No Spanish or Russian offering for shipment. General tone is fully steady.

GAMBOGE.—The demand on spot is quiet: good Siam pipe quoted at about £13 10s. per cwt., duty paid.

GENTIAN.—Occasional small spot business reported: clean French root, 33s. 6d.; shipment, new crop, 27s. 6d., c.i.f.; Continental, 32s. 6d. per cwt., ex store, as to quantity.

GINGER.—Market is quoted cheaper with business still quiet: West African, spot, 25s.; for arrival, 21s. 6d. per cwt., c.i.f. Jamaican, spot, bold, in barrels, 70s. to 82s. 6d.; small grinding, in bags, 44s. to 47s. 6d. per cwt., c.i.f.

GUM ACACIA.—Interest on spot is maintained and shippers' prices are steadier: Kordofan, cleaned sorts, spot, 38s. 6d. to 39s.; shipment, firm at 36s. 6d. per cwt., c.i.f.

HENBANE.—Dealers report business quiet: 72s. 6d. to 75s. per cwt., as to quantity.

HENNA.—Fully steady on a quiet market: Egyptian, brown leaves, from 30s. to 32s. 6d.; green leaves, if available, from 37s. 6d. per cwt., ex store.

HONEY.—The general tone continues steady with new crop Canadian attracting attention: new crop Jamaican, from 28s. for dark manufacturing to 45s. for pale set; Canadian, 50s. to 52s. 6d. per cwt., as to quality, ex store.

HYDRASTIS.—Business has been slack; at the easier prices the market is steady: U.S.P., 13s. 3d.; shipment, 13s. per lb., ex store.

IPECACUANHA.—Fair inquiry, with buyers apparently unwilling to pay current prices; spot holders are keeping up their figures, and the shipment market is reported to be fully steady: Matto Grosso, B.P., spot, 7s. 1½d. to 7s. 4½d.; shipment, from 6s. 10½d. per lb., c.i.f.

LOBELIA HERB.—Business of little importance: 6¾d. to 7d. per lb. for good quantities.

LYCOPODIUM.—Market not attracting much inquiry: dealers are quoting spot supplies at about 4s. 6d. per lb.

MENTHOL.—Japanese has met with quite a fair amount of business on spot from consumers; the market continues steady: K/S brands, spot, 13s. 1½d. to 13s. 3d.; good inquiry for afloat and September, with sellers quoting 11s. 6d. and 11s. 3d., c.i.f., respectively. Japanese shippers quote October-December at 10s. 10½d., c.i.f. Chinese, spot, 12s. 9d.; shipment, October-November, 10s. 3d. per lb., c.i.f.

MERCURY.—First-hands quotations are unchanged: shipment, 69 dollars per bottle, f.o.b., Continent; spot, £13 18s. to £13 18s. 6d. per bottle, ex store, London.

NUX VOMICA.—Cochin, washed and garbled, B.P., spot, 11s.; forward, 9s. per cwt., c.i.f.

OPIUM.—Business of small account: Turkish, original cases of 170 lb., 13 per cent., 1s. 1d.; Iranian, 12 per cent., 1s. 1d. per unit, landed and duty paid.

PEPPER.—Market has remained rather quiet. Black descriptions are rather steadier, with Muntok fractionally easier: Lampong, in bond, 2⅝d.; shipment, October-December, 2 11/16d.; January-March, 2 11/16d., c.i.f. Tellicherry, spot, 4d.; shipment, August-October, 33s., c.i.f. Aleppy, spot, 4d.; shipment, August-October, 33s., c.i.f. White Muntok, in bond, 3¾d.; shipment, October-December, 3 9/16d.; January-March, 3 11/16d., c.i.f. London Terminal Market: Black, August, 2⅝d.; October, 2 11/16d.; December, 2 11/16d.; March, 2 13/16d. White, September, 3¾d.; October, 3¾d.; December, 3 13/16d.; March, 3⅞d. per lb.

PIMENTO.—Market is much steadier and quoted dearer forward: spot, 8d. per lb.; shipment, September, 62s. 6d.; September-October, 62s. per cwt., c.i.f.

RHUBARB.—Steady inquiry for rough round description, with prices well maintained on spot; no shipment offers of any kind: Shensi, spot, unchanged at 4s. 6d. to 5s. for best quality; old, slightly wormy, 3s. 9d.; no shipment offers. Rough round, spot, 1s. 10d. to 2s. per lb., as to quality.

RUBBER.—The market weakened a little early on, with business quiet and later recovered, closing steady, with a fair volume of business transacted: smoked ribbed sheet, spot, 7 15/16d.; September, 7 15/16d.; October, 7 15/16d.; November, 8d.; December, 8d.; January-March, 8 1/16d.; April-June, 8¼d.

SAFFRON.—Holders of the very small quantity of finest Valencia are quoting firm at 87s. 6d. to 92s. 6d. per lb., ex store.

SENEGA.—Some arrivals are noted, but it is stated most of the goods are already sold to consumers; market continues steady: spot, about 2s.; shipment, about 1s. 11d. per lb., c.i.f.

SENNA.—Business for spot goods has not been of much account. Forward quotations for Tinnevelly leaves are firm, and in some instances prices have been raised by ¼d. to ½d. per lb. Further supplies of new crop Tinnevelly leaves are expected to arrive in London this week, and holders are quoting as follows: No. 1 at 6d. per lb., No. 2 at 4d., No. 3 at 2¾d., No. 4 at 2¼d. per lb., and these prices could be shaded for old crop leaves. Tinnevelly pods.—Best pale green hand-picked offer at 5d. to 6d. per lb., with darker descrip-

tions at 3½d. to 4d. per lb. Alexandrian hand-picked pods.—The spot market is bare of best palish bold pods, and as no further supplies are expected for some months firm prices are being quoted here. Spot quotations as follows: Selected, 5s.; No. 1, 4s.; No. 2, 3s.; No. 3, 2s. 3d. per lb. Old crop, 1s. to 1s. 9d. per lb.

SHELLAC.—Quoted slightly cheaper on the week, market steady: spot, standard TN orange, 38s. 6d. to 41s. 6d.; fine orange, 55s. to 80s.; pure button, 50s. to 52s. 6d. per cwt. For delivery, TN, October, 38s. 9d.; December, 39s. 9d.; March, 40s. 9d. For arrival, TN, September-October, 36s. 6d. per cwt., c.i.f.

SLIPPERY ELM BARK.—A limited spot business is reported: 5-lb. wired bundles, selected quality, 1s. 6d. per lb., ex store.

SQUILL.—A parcel of new crop best white is indicated at 27s. 6d. per cwt., ex store.

TONKA BEANS.—Limited spot sales: fair frosted Para beans, about 3s. per lb., ex store.

TRAGACANTH.—Market has remained distinctly quiet, with values for all descriptions nominally unchanged: Finest selected white ribbon, £65; No. 1, white, £57 10s. to £60; No. 2, white, £50 to £54; No. 3, white, £35 to £42 10s.; amber leaf, £22; cleaned amber sorts, £16; brown to amber leaf, £11 10s.; red leaf, £9 to £10; hoggy, £6 to £7 per cwt., ex store.

TURMERIC.—Interest in this market has been small this week. Values unchanged: Madras finger, spot, 28s.; shipment, 26s. 6d. per cwt., c.i.f. Rajapore, shipment, 26s. 6d. per cwt., c.i.f.

VALERIAN ROOT.—A quiet spot business only in small parcels: quoted at about 35s. per cwt., ex store.

WAXES.—BEES'.—Values are keeping fairly steady, with a moderate general business passing: Calcutta, bleached, spot, 125s.; shipment, September-October, 117s. 6d., c.i.f.; ordinary quality, spot, 95s.; shipment, September-October, 90s. per cwt., c.i.f. Benguella, in bond, 90s.; shipment, September-October, 87s., c.i.f. Conakry, 90s. in bond; shipment, September-October, 85s., c.i.f. Dar-es-Salaam, spot, 97s. 6d.; shipment, September-October, 95s., c.i.f. CARNAUBA.—Quiet demand; spot stocks reported to be limited: fatty grey, spot, 152s. 6d.; afloat, 147s. 6d.; shipment, September-October, 144s., c.i.f. Chalky grey, spot, 147s. 6d.; afloat, 145s.; shipment, September-October, 142s. 6d., c.i.f. Primeira, spot, good quality, 195s.; f.a.q., 182s. 6d.; shipment, September-October, 187s. 6d., c.i.f. Mediana, spot, 180s.; shipment, 177s. 6d. per cwt., c.i.f.

Essential and Expressed Oils, etc.

SOME few products have attracted a little more business, but the general tone continues dull, with many items quoted competitively. Sicilian hand-pressed lemon is reported dearer at the source. French Guinea orange is dull and cheap. Japanese peppermint has sold well on spot at steady prices.

ALMOND.—Business in small parcels, quantities at keen prices: English-made, cwt. lots, 2s. 8d.; smaller parcels, up to 3s. 2d. per lb.; foreign, cwt. lots, 2s. 8d.; smaller parcels, up to 3s. 2d. per lb. French bitter, 6s. to 6s. 1½d. per lb.

ANISE (STAR).—Spot market has been dull and offers are again rather easier; shipment market slack: spot, leads, nominal; tins, 3s. 5d.; drums, 3s. 3½d. per lb., ex store; shipment, leads, none offered; tins, 2s. 9½d.; drums, 2s. 8d. per lb., c.i.f.

AVOCADO PEAR.—Importers' quotations are unchanged at 46s. to 52s. 6d. per gallon, as to quantity.

BERGAMOT.—Only a limited spot business is reported, with values unchanged: Consortium price about 14s. 9d. per lb., c.i.f. Spot lots of genuine oil are quoted in the region of 15s. to 15s. 3d. per lb.

BOIS DE ROSE.—Market is steadier on the dearer American dollar: Brazilian oil in drums at 5s. 5d. to 5s. 6d., and small repacked lots up to 6s. per lb.

CAJUPUT.—Slightly easier on a quiet market, business small: B.P., 1s. 11d. to 2s. 4d. per lb., as to quantity.

CANANGA.—Continues to be very unsteady, with little business moving: spot, 4s. 6d. to 4s. 9d., according to quantity and packing; shipment, 4s. 1d. per lb., c.i.f.

CARAWAY.—Not much business except small spot orders: Dutch rectified, 7s. 3d. to 7s. 9d.; crude, 6s. 9d. to 7s. per lb., as to quantity, landed and duty paid. Some Russian oil being offered to come forward.

CASSIA.—Spot, good quality oil, 3s. 1d. to 3s. 1½d., in leads; off-quality, at cheaper prices. Shipment market is dull and easier; leads, 2s. 8d.; drums, about 2s. 7d. per lb., c.i.f.

CEDARWOOD.—Market steady but business of small account: African, in drums, 11½d.; smaller packages, up to 1s. 4d. per lb. American, in drums, 11½d.; smaller packages, up to 1s. 4d. per lb.

CINNAMON LEAF.—Business quiet, but spot quotations for small parcels are fairly steady at about 2s. 4d. to 2s. 8d. per lb., as to quantity.

CITRONELLA.—The Java oil continues dull and is quoted for shipment very cheaply; Ceylon oil steady, with practically no shipment offers. Ceylon, spot, drums, if available, 1s. 5d. nominal; smaller parcels, up to 1s. 10d.; shipment, drums, 1s. 4½d. per lb., c.i.f. nominal. Java, spot, drums, 1s. 9¾d. to 1s. 10¼d.; smaller parcels, up to 2s. 3d.; shipment, drums, around 1s. 4d. per lb., c.i.f.

CLOVE.—Rather more spot inquiry, with values steady: Madagascar, spot, drums, 2s. 9d. to 2s. 10d. per lb.; repacked in small quantities, up to 3s. 4½d. English distilled, 4s. 10d. to 5s. per lb., as to quantity.

EUCALYPTUS.—Moderate inquiry on the market, with prices for good oil steady: Australian, 70 to 75 per cent., tins, 1s. 3½d. to 1s. 4d.; drums, 1s. 3d.; 80 to 85 per cent., drums, 1s. 6¾d. per lb., ex store, with higher prices for small lots; shipment, 70 to 75 per cent., tins, 1s. 1½d.; drums, 1s. 1d.; 80 to 85 per cent., 1s. 4d. per lb., c.i.f.

GERANIUM.—Bourbon is dull and irregular. Algerian oil is steady but quiet. Bourbon, spot, 11s. 4½d. to 12s.; shipment, about 10s., c.i.f. Algerian, spot, 12s. 4½d. to 12s. 9d.; shipment, about 11s. 6d. per lb., c.i.f.

GRAPE-FRUIT.—Business has been of small account: Californian, 10s. 3d. to 12s. Florida, 11s. to 12s. 6d. per lb., ex store, as to quantity.

HO (SHIU).—Demand is quiet with some inferior oil offering at low figures: spot, "improved" quality, 4s. to 4s. 1d.; "extra," in drums, 4s. 3d. per lb., ex store; shipment, "extra," 4s. per lb., c.i.f.

JUNIPER BERRY.—Market is on the quiet side with spot quotations at about 3s. 3d. to 3s. 10½d. per lb., as to quality and quantity.

LAVENDER.—New crop prices are still awaited. One suggestion indicates a price of 250 francs per kilog. for a good standard quality 38 to 40 per cent. oil.

LEMON.—Conditions at the source for Sicilian hand-pressed oil are reported to be firm, with last season's oil up to 10s. 9d. to 11s. 3d., c.i.f., with new crop, January-February shipment, indicated at 11s. 3d., c.i.f. There appears to have been very little buying for this market, yet spot stocks of good oil are exceedingly low. The limited stocks here are mostly held against contracts, and it would probably be difficult to find 10 cwt. of genuine oil at the moment. Spot quotations are firm at 11s. 3d. to 11s. 6d., with blended oils at cheaper prices. Machine-made, 10s. 4d. per lb., c.i.f. Californian distilled, steady at 6s. 4d. per lb., in small drums, landed.

LEMONGRASS.—Practically no interest in the shipment market: spot, 1s. 7½d. to 2s., as to quantity and packing; shipment, September, 1s. 4½d.; September-October, 1s. 5d. per lb., c.i.f.

LIME.—Remains quiet: West Indian, distilled, spot, 21s. to 22s. per lb., as to quantity.

MANDARIN.—Business slow, quotations vary as to quality: spot, 19s. to 22s. per lb., as to quality; shipment, 17s. 3d. up to 19s. 6d., c.i.f., for highest grade oil.

NUTMEG.—Dutch and American oils quoted steadily at 5s. 4½d. per lb. for bulk lots; smaller parcels, up to 5s. 9d. per lb.

OLIVE.—General conditions are firm with a fair business reported: B.P., 1 per cent., 5s. 10½d. per gallon, in drums. Edible quality, ten 1-gallon tins, in cases, 77s. 6d.; twenty ½-gallon tins, 82s. per case; drums, 6s. 3d. per gallon.

ORANGE.—The French Guinea oil is quoted very cheaply, spot and forward, but business in good quantities remains quiet. Orders are mostly for small lots: spot, in drums, 2s. 10d.; repacked, in tins, 3s. 1½d. to 3s. 3d. per lb., ex store; shipment dull at about 2s. 2½d.; per lb., c.i.f. A parcel in bond is reported to be available at 2s. 3d. Californian, spot, one case, 2s. 8½d.; two or more cases, 2s. 6d.; large drums not quoted; small drums, 2s. 5d. per lb., landed; cold-pressed, 3s. 2d. per lb., c.i.f., in cases.

PALMAROSA.—Market remains dull and rather competitive on spot; shipment market slack: spot, about 7s. 9d. to 8s. per lb.; shipment offers, prompt, 6s. 9d., c.i.f., and new crop, distant shipment, 6s. 6d. per lb., c.i.f.

PATCHOULI.—Demand for Singapore oil is slow, with offers at very keen prices noted; quoted in the region of 12s. per lb. Java oil is quoted at rather cheaper prices. Seychelles, 10s. 6d. to 10s. 9d. per lb., as to quantity.

PEPPERMINT.—The Japanese product has met with quite a good consuming trade, buyers having come in after waiting for some time for lower prices, which have failed to materialise. Spot continues steady at 4s. 9d.; re-sellers of August-September at 4s. 6d., c.i.f. No offers from Japan for early shipment, but October-December is indicated at 4s. 6d. per lb., c.i.f. American natural oil, tins, continues firm at 2 dollars 30 cents to 2 dollars 35 cents per lb., c.i.f. Bulgarian is offered at 11s. per lb. and Russian at 7s. 6d. per lb., c.i.f.

PETITGRAIN.—Steady on spot and rather dearer forward: spot, cases, 3s. 9d. to 3s. 10d. per lb.; shipment, 3s. 3d. per lb., c.i.f. French oil, to come forward, is quoted from the source at 950 francs per kilo.

SANDALWOOD.—Genuine East Indian Mysore, in one-case lots, steady at 20s. 6d. per lb. Genuine East Indian, produced outside the province of Mysore, 18s. 6d. to 19s. per lb., c.i.f., in bulk quantities. English-made West Indian, 7s. 3d. per lb. Australian, steady at 15s. 3d. per lb. for 7-lb. tins; one case at 14s. 9d. and five cases at 14s. 6d. per lb.

SPEARMINT.—Spot values fully steady and rather dearer forward: U.S.P. oil, spot, 9s. to 9s. 3d.; shipment, 8s. 5d. per lb., c.i.f.

SPIKE.—Market remains quiet and quoted unchanged: genuine Spanish, about 5s. 3d. to 5s. 7½d. per lb., as to quantity and seller. Blended oils offering at cheaper prices.

WORMSEED.—Market fully steady forward, business quiet: U.S.P. oil, spot, 11s. 3d. to 11s. 4½d.; shipment, 10s. 6d. per lb., c.i.f.

Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Reality in Science

SIR,—Science needs no vindication when the meaning of the word is restricted to reality, as it is derived from the Latin *scio* (I know) and no one can dispute the validity of true knowledge or the truth. Misunderstandings arise from man not facing facts and allowing his imagination to invent concepts (words) which may be real (objective) or imaginary (subjective). The opponents and proponents of the utility of modern science are equally guilty of permitting reasoning to over-rule common sense by overlooking the simple fact that disputes are inevitable so long as words create mind images or impressions which may relate to fact, fiction or fallacy. A new and simple science has come into being by relating words to reality, i.e., to things as they are and not what various individuals imagine them to be. This is achieved by defining concepts in terms of operations, thus "temperature" must be measured as a thermal equilibrium or state of balance in which heat gains and loss are equal. This duality of natural phenomena combines the interaction of immaterial radiation with radiating matter and the "working equilibrium" expresses the unfailing Newtonian law that "Action and reaction are equal and opposite." The conversion of words into real concepts is made possible by the fact that "work" is a concept which pictures both sides of the everchanging equilibria familiar in mechanics, physics and chemistry, the "laws" of which combine into a universal law of physico-chemical equilibrium as symbolised in conventional manner by reversed pointers—

Energy Exchanges

Physico-chemical	Absorption ⇌	Emission
Chemical	Activation ⇌	Reunion
Physical	Quantum (absorbed) ⇌	Quantum (emitted)
Mechanical	Action ⇌	Reaction
Philosophical	Cause ⇌	Effect

Resonance is the term used to denote attunement between material radiator and immaterial radiation. However, the concepts of energy and inertia have no separate existence apart from imagination, being indissolubly conjoined as the action (radiant energy) with reaction (of radiating matter). The attempts to investigate energy manifestations as separate effects of chemistry and physics (with their many sub-divisions) is making confusion worse confounded. The simplicity of reality is evident from the concept of "red" as defined in terms of operations (i.e. energy exchanges):—Red is a visual impression created by a material object which reflects red rays and absorbs the other components of the visible spectrum of light. Such definitions make the meanings of words relate to facts, and eliminate imagination as, if necessary, the colour can be defined within spectral frequency limits. In conclusion, it is sufficient to state that man does not bring any knowledge into the world, and the utility of science is to collect and collate facts which can be unified into a generalisation or "law," as exemplified above.—Faithfully yours,

W. A. WHATMOUGH.

London, N.W.11.

Looking Towards the Future

SIR,—Your remarks on Insurance dispensing (*C. & D.*, September 3, p. 237) come at an opportune moment, when the terms for the continuance or renewal of the Insurance contract are coming up for discussion again. Apart from the necessity of securing payment in full and no discounting, a continued acceptance of the Tariff scale as fixed at present would establish a precedent which might act to our detriment in the future. Chemists are now realising that the extension of National Health Insurance to a much larger number of persons may be an accomplished fact before many years are past, and after that comes about the natural sequence will be the complete separation of prescribing from dispensing, bringing us into line with various other countries. As you say, in such event it can hardly be conceived there would be no control over the price of drugs and dispensing fees, and chemists would have to work to a definite tariff, following the Continental system. It would be pointed out that chemists have accepted and worked by the Insurance tariff for years, and therefore this should be the price list to be adopted for all prescriptions. Now is the time to exert every effort to get a more reasonable rate of pay for panel dispensing, and not to wait until any extension of the service comes into force. There are important differences between insurance and private prescriptions, dispensing of the former being done under a contract, while the pricing is undertaken by the pricing bureau and payment is made through the Insurance committee, whereas private prescriptions are a retail transaction—each is a separate sale and should command a higher rate. There is also the difference in the overhead charges of pharmacies situated in varying localities. The West-End pharmacy has heavier expenses than a suburban or provincial one, the pharmacy in an important shopping thoroughfare than one in a side street, which would appear to be an argument against a flat rate. It may be said that a pharmacy in a busy or wealthy district attracts more custom and has a larger turnover, thus equalising the rate of profit; but would this apply to dispensing? One would expect the larger number of prescriptions to be panel scripts, and therefore in the poorer neighbourhoods, and the smaller number to be private ones for people of the richer class. In the meantime our first and most important object is to obtain more adequate remuneration for the Insurance work.

Yours faithfully,

CONTRACTOR (4/9).

Too Many Chemists

SIR,—Your editorial "A Nucleus for Pharmacy" in the *C. & D.*, September 3, is good reading and should afford much food for thought on the part of chemists. One would gather from it that you foreshadow in the future an almost universal insurance scheme for the treatment of all comers—rich and poor. In that event what is to become of private medical and pharmaceutical practice? I assume the doctor and the chemist will become the shuttlecocks for the State to play with. If the chemist wants a monopoly of dispensing naturally the doctor would require a monopoly of prescribing. There is no doubt that the chemist to-day is continually wondering what is going to be imposed upon him next, and patiently submitting when the imposition comes. The trouble is there are far too many chemists in proportion to the population to practise as such and make a living. Do chemists to-day rely on dispensing to eke out a livelihood? Look at their shops and you will get your answer; but why have men with a high standard of training and holding a diploma second to none to compete as general merchants? To get the answer one must go back some years there to find chemists "taking apprentices." It was often cheap labour, and when the unfortunate apprentice had completed his time he had to go. He got an assistantship, and eventually qualified. Then, oh then, he opened up on his own account, heroic fellow, and—took an apprentice. So the scheme has gone on. Had our predecessors restricted entry to our profession, what an enviable position chemists would be in to-day, and *secundem artem* would not have lost its meaning. Therefore by all means let us get back to pharmacy for the chemist and make the public realise that we are a profession. Let us impress upon the Government that we are not door mats, but above all things let us restrict those entering our ranks.—Yours, etc.,

HOPEFUL (3/9).

Photographic Chemists

SIR,—It is rather amusing to read that there is an increasing number of photographic chemists who are by no means ignorant of the subject (*C. & D.*, August 27, p. 216). My own experience commenced as a boy with what was then considered a modern hand camera, a form of box with a hinged lid, the rear portion holding three metal double dark-slides, the front part being the camera proper with a rebounding shutter worked by an elastic band. Dry plates were then to be obtained only at one chemist's in the town, and amateurs did their own developing and printing, prints were on P.O.P. toned in gold and sulphocyanide solution, and the chemist was the natural person to make up and supply the solutions required. During my apprenticeship we were again the only

shop in the district which sold photographic materials. I believe I am correct in saying that processing for the amateur by the trade did not really start until the advent of the roll film; before this amateurs did their own work and were interested in it, but the introduction of roll films opened the way for the "press the button" amateur, who was not interested in the practical side and only wanted to see the results. Further, the first roll films, or rollable films as they were then called, were not so easy to handle on account of their tendency to curl up; it was not till later that non-curling films were evolved.—Yours faithfully,

REFLEX (31/8).

Ammonium Carbonate Solution

SIR,—Pharmacists of lengthy experience will undoubtedly agree with the views of your correspondent, "Pharmacist-Analyst" (*C. & D.*, September 3, p. 247). Dispensing solutions of the preferred strength (1 in 6, 1 in 8, or 1 in 10) when made with cold distilled water and preserved in well-stoppered bottles are very stable. Cubes of salt free from powder dissolve rapidly, if occasionaly shaken. Tap water, though often used, is rarely sufficiently pure, and if used an insoluble crust on the container appears or a precipitate forms.—Yours truly,

C. MEYRICK.

London, S.W.

Lessons from Overseas

SIR,—In the note on dispensing charges in South Africa (*C. & D.*, September 3, p. 230) an example is given showing the rate-per-minute factor bearing a relation to the salary paid to the dispenser, and 2½d. a minute is 12s. 6d. an hour. Compare that to the rates obtaining at home. Taking £4 a week, that is the semi-official minimum for a qualified chemist, and 50 hours weekly, it works out at 1s. 7d. an hour, or just under fourpence for the twelve minutes, or less than one-seventh of the South African. Chemists may well ask if prescriptions are priced at a low figure because of the rate of wages, or are salaries kept down by inadequate dispensing charges? The fivepenny fee for compounded mixtures, which dwindles to 4½d. before we get it, only just covers the wages as worked out on this scale, and if this figure is supposed to include other charges, then there must obviously be a loss. It may be argued that Insurance scripts do not as a rule take so long as twelve minutes to dispense, but I do not think it is an unreasonable time, as it involves in effect serving of the customer twice and other necessary duties accompanying the dispensing. Even if this time were halved, there would be little change out of the fees, certainly not enough to pay a really professional salary.—Yours faithfully,

DUODECIMUS (3/9).

SIR,—It is amazing to consider how far advanced is the practice of pharmacy in the Colonies compared with the Mother Country. In last week's *C. & D.* (p. 247), your correspondent "Austral" drew attention to the envious position of our *confrères* in the Commonwealth as indicated in the Government's National Health Insurance Bill which has passed through the Australian Senate. Not only has discounting been avoided, but a definite fee 40 per cent. higher than ours has been adopted with guarantees of prompt payment. It is interesting to note that a practical investigation undertaken in this connexion resulted in the discovery that the dispensing of a representative series of mixtures, powders, cachets and what not averaged out at twelve minutes. The charge suggested for time is 2½d. per minute—surely not an exorbitant one, and 60 per cent. on cost is nearer what it ought to be than our present fivepenny fee. On the same page (230) I note that the Pharmacy Board of South Australia has set out very clearly the instruction which it is compulsory on employers to give to indentured apprentices. The case at Brisbane (still on the same page) should prove of interest. There a pharmacist's appeal against his name being removed from the register for alleged "infamous conduct in a professional respect" was upheld, the judge saying that "if the profession had imposed upon itself a body of rules for the guidance of its members, which rules were observed generally, he would have no hesitation in giving effect to them, but he took the view that there were no such rules." These items should be of particular value to branch representatives at Edinburgh next week, who will doubtless be discussing from various angles the institution of a code of "business rules."—Yours faithfully,

DON QUIXOTE (5/9).

Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

F. P. (9/8).—FLUIDEXTRACT OF GINGER.—Fluidextract of ginger U.S.P. is double the strength of strong tincture of ginger B.P.

G. K. M. (26/8).—CHLORINATING A SWIMMING POOL.—For indoor baths, it is recommended that filtration should be continuous by means of pressure filters, with a "turnover period" for the whole of the water in the baths of not more than four hours. In order that rapid filtration should be effective, it is necessary to add a "coagulant," that is, an aluminium compound with the necessary alkaline salt to form a flocculent and retentive precipitate of aluminium hydrate, which prevents solid particles and some of the bacteria from passing through the filters. After filtration, the clear liquid is heated, aerated and chlorinated by means of chlorine gas or by chloramine. The water entering the bath should then comply with the following chemical guarantees:—(1) The water issuing from the plant shall contain not more than 0.5 parts and not less than 0.2 parts per million of free chlorine; (2) be definitely alkaline to methyl orange, but free from caustic alkalinity; (3) be of a clarity so that a 19 S.W.G. platinum wire can be seen through a depth of six feet; (4) fully aerated, sparkling and attractive in appearance. Provided that the bath is not hopelessly overcrowded, the bacterial purity will then be approximately that of drinking water. The maintenance of an alkaline condition is important to neutralise the acid continually formed from the alumina and chlorine, which often causes complaints of smarting eyes, often wrongly attributed to the presence of excess chlorine. A *p*H value between 7.0 and 8.0 will be adequate protection in this respect. A booklet is issued by the Ministry of Health on "The Purification of the Water of Swimming Baths" (H.M. Stationery Office, York House, Kingsway, London, W.C.2, price 1s.).

B. F. L. (9/8).—BOOKS ON FOOD ANALYSIS.—The following should be suitable for your purpose:—Cox's "Chemical Analysis of Foods" (Churchill, 21s.); Liverseege's "Adulteration and Analysis of Foods and Drugs" (Churchill, 36s.); Allen's "Commercial Organic Analysis" (Churchill, in 10 volumes, 32s. per volume).

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," September 8, 1888

Advantages of a Pharmaceutical Training

There are few callings which have more far-reaching affinities than that of the pharmacist. It has sometimes been said that his training and daily work have a tendency to narrow his views and dwarf his mind. I differ entirely with this opinion. A well-trained pharmacist has many strings to his bow. His acquired habits of minute observation, absolute accuracy, and careful attention to details should be invaluable to him. As a business man he learns much which the pure scientist often lacks, whilst as a scientific man he possesses knowledge beyond that of most of his business competitors. His daily work brings him in contact with many sorts and conditions of men, and he has special opportunities of learning much of the everyday requirements of his fellow-creatures; but I fear as a class we have been a little deficient in self-reliance, too apt to look for and depend on outside help, the protection of some hypothetical Act of Parliament, the tender care of this society or that. It is time we made a fuller and more extended application of that scientific knowledge the possession of which we sometimes assure the world is our special characteristic. If some of the trade formerly associated with pharmacy has been alienated, the field for the practical application of science has enormously increased. The pharmacist must fit himself to occupy part of that field. If he will trust more to the scientific side of his vocation, there is room for him yet. Briefly, we may, I think, rest assured that the success or failure of the pharmacist of the future will largely depend on his fitness to accommodate himself to somewhat altered and modified conditions. [From Mr. F. Baden Benger's presidential address at the Bath meeting of the British Pharmaceutical Conference.]

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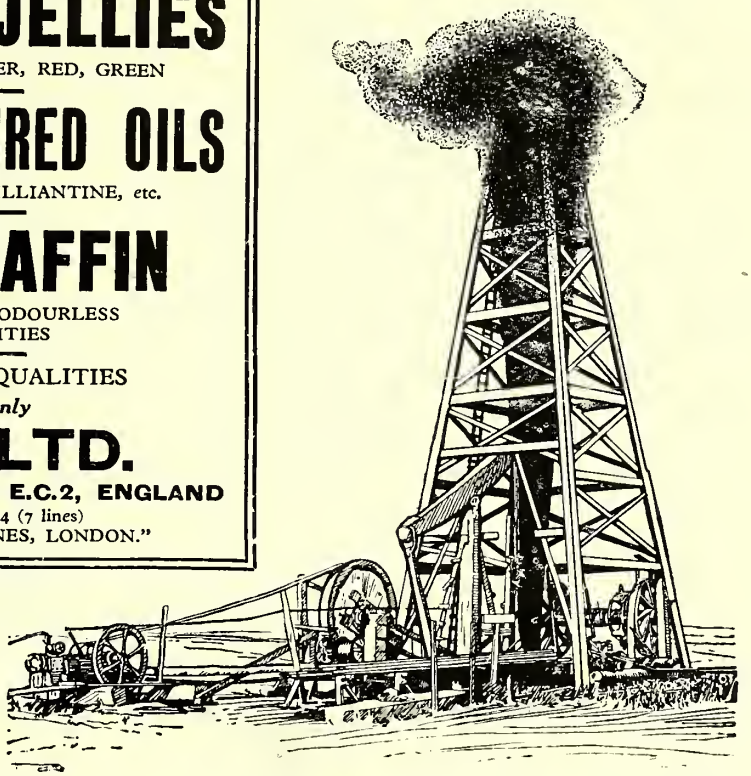

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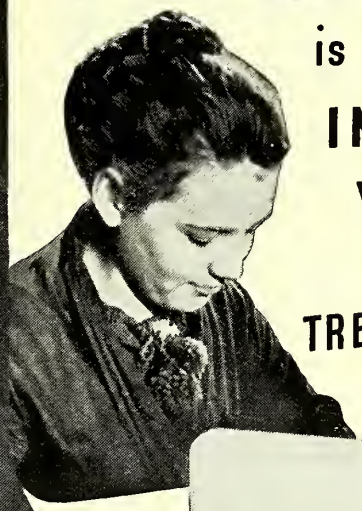

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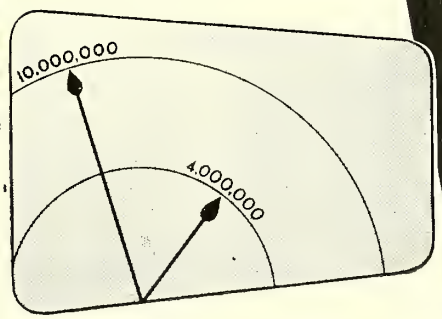

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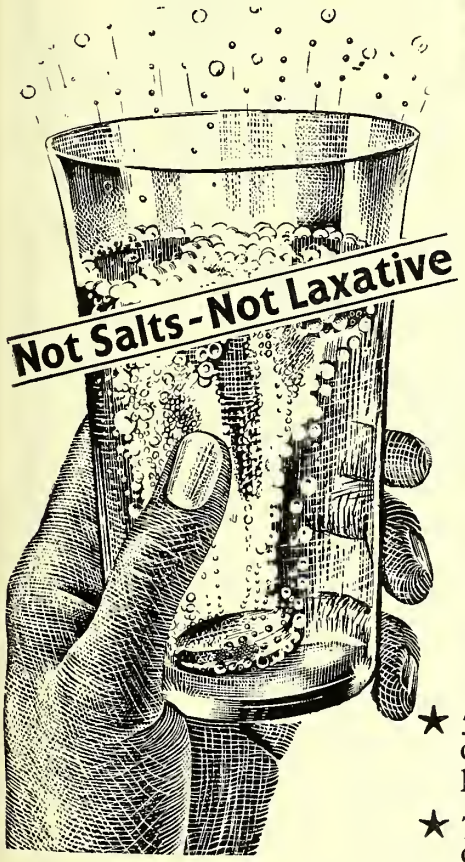

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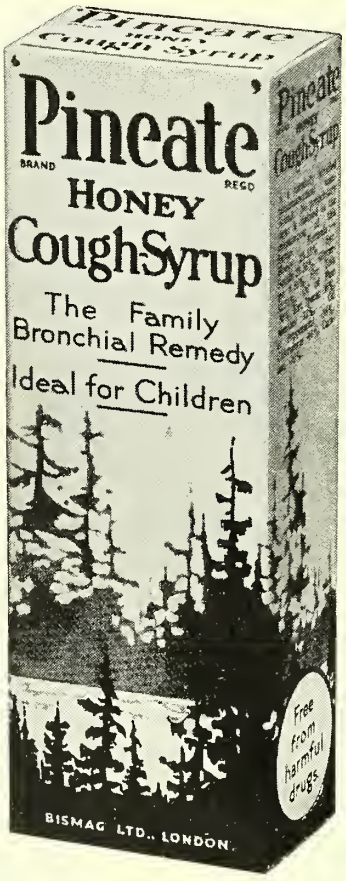

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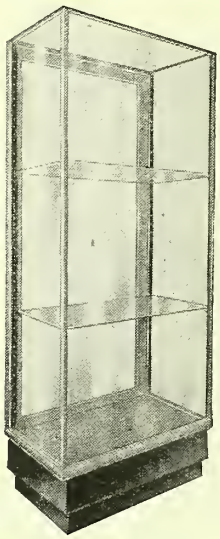

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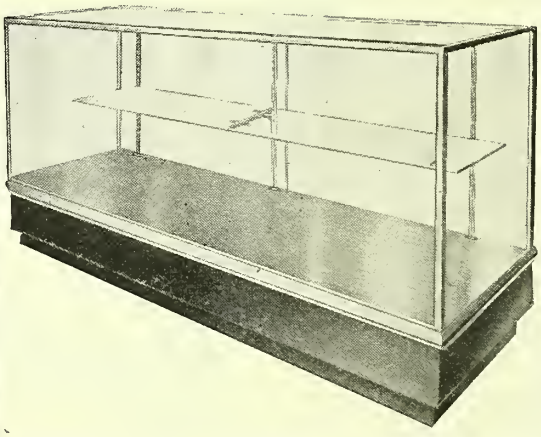

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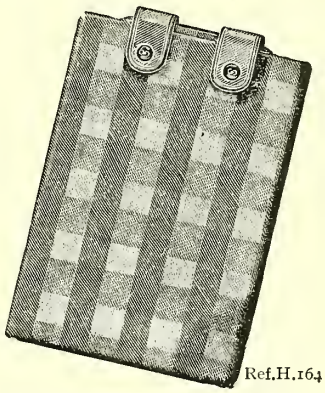

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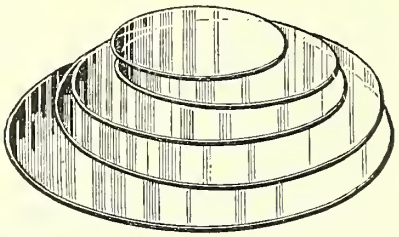

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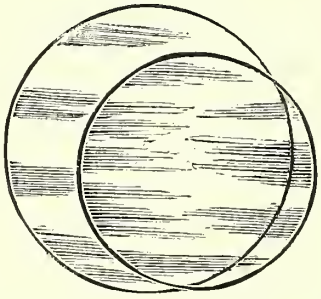

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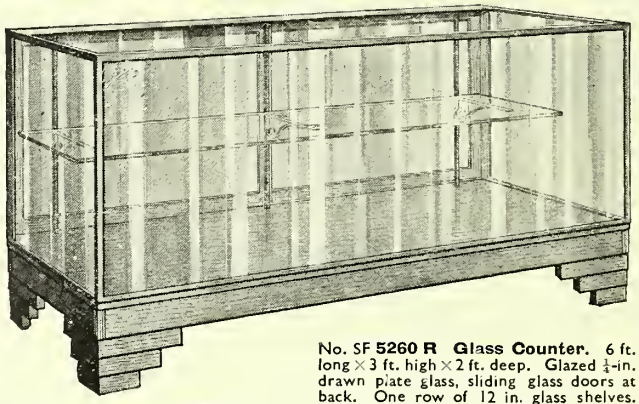

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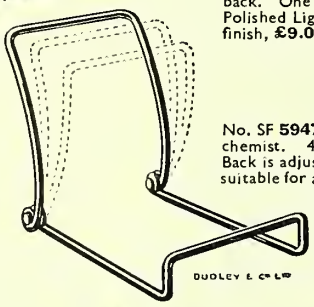

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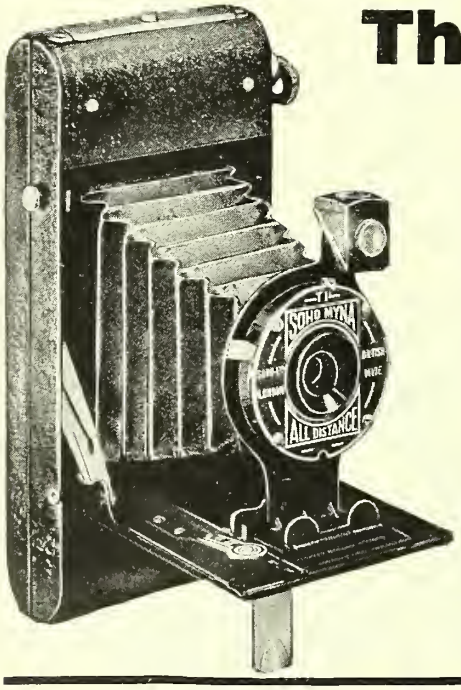

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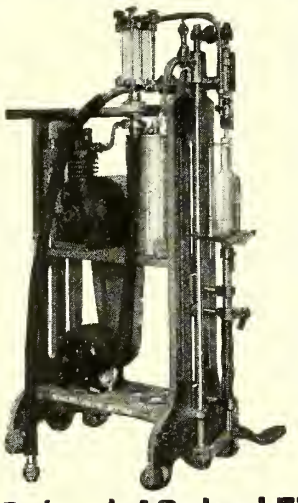

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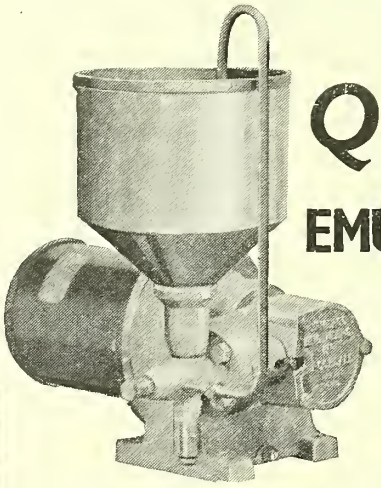

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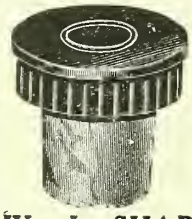

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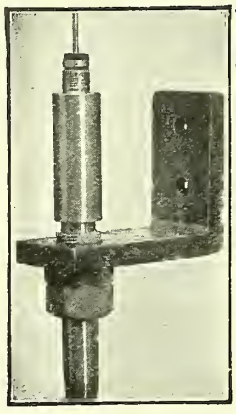

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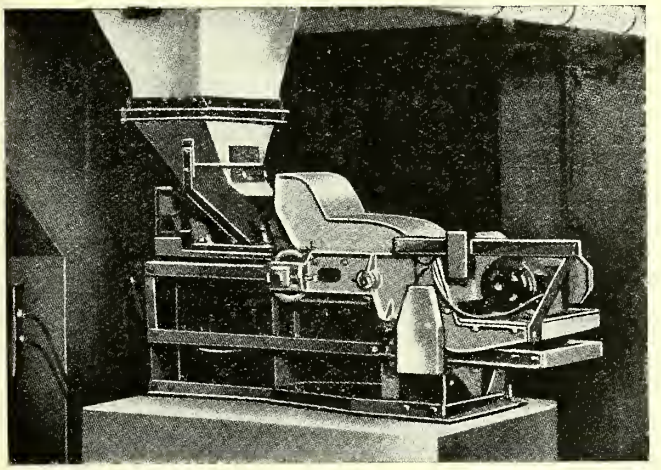

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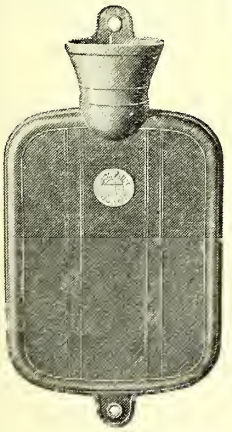

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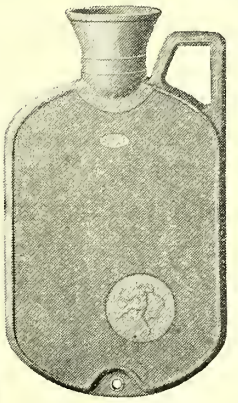

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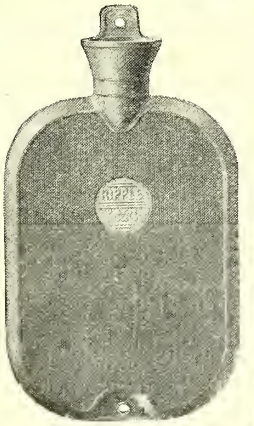

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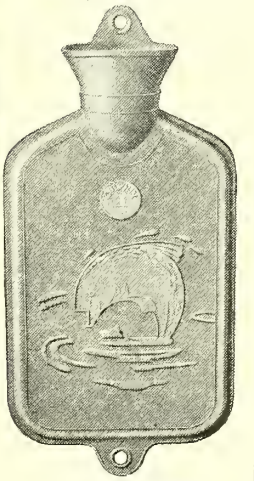

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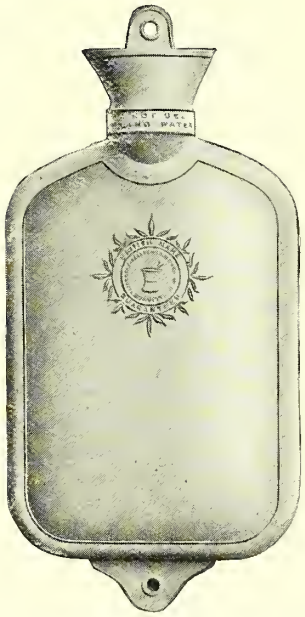

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CHEMISTS' ENVELOPES AND BAGS
Kristal Envelopes 2/6 per 1,000
Grease proof 2 oz. bags 1/- per 1,000
Cash with order.

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The public is always finding out new uses for 'ASPRO'. Each new use creates a new market. Newspaper advertising to the order of £14,000 A MONTH—nation-wide broadsheeting—an annual expenditure of £20,000 in 'bus posters, news posters, railway carriage advertisements announce these new uses to a wider audience. For instance, the use of 'ASPRO' as a gargle for sore throats received a tremendous impetus during the dry and dusty weather at the beginning of May. Thousands then learned for the first time of its wonderful value in this respect. It is this constant activity—constant search for new ways in which 'ASPRO' can exert its wonderful soothing aid which has definitely established 'ASPRO' as an all-seasons record-breaker.

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'ASPRO' consists of the purest Acetylsalicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

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BONUS ON 5's & 10's ...	One gross order ...	Bonus 1 dozen packets
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Half gross of either size is the minimum order accepted for bonus purposes.

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BONUS CONDITIONS.—The only conditions made are that the Chemist who buys on these terms undertakes to show 'ASPRO' advertising matter in his shop window for 14 days and sell at advertised prices. Acceptance of Bonus is considered acceptance of conditions regarding display and selling prices.

[54/28]

The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2

SEPT. 10, 1938

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All advertisements in this Supplement must be prepaid

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Advertisements for this Supplement can be accepted up to **FIRST POST THURSDAY MORNING** of week of issue. Advertisements received later will be inserted the following week.

THE CHEMIST & DRUGGIST, 28 Essex St., Strand, London, W.C.2 *Tele: Central 6565 (10 lines) 'Grams: "Chemicus," Estrand, London*

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1.—**HACKNEY.**—Middle- and Working-class Cash Retail Business; kings, present rate, about £28 per week; good profits; stock worth out £600, can be reduced to suit purchaser; excellent house over; no asonable offer refused; **part payment terms entertained.**

2.—**FINCHLEY (NEAR).**—Family Retail Business; takings for last mpleted financial year £2,300; chartered accountant's figures; splendid ing accommodation; National Cash Register; inclusive purchase ice £1,450; new lease.

3.—**BAKER STREET, W.1.**—Good-class Dispensing Business; rnover exceeded £2,000 for last completed financial year; old-established ncern; rent £100 per annum; inclusive purchase price £1,150; vendor ying another business.

4.—**STROUD GREEN.**—General Retail Business with excellent nel; established 1870; turnover last year £1,619; net profit approaches oo per annum; certified figures; heavy stock; excellent living accomodation; rent only £70 per annum; vendor buying another business; uld accept valuation terms; total price about £750.

5.—**STREATHAM.**—Main Road Cash Retail Business for disposal sacrifice price; no sum required for the goodwill; takings average over o per week at good prices; stock and fixtures worth a figure in the ighbourhood of £1,000; accountant's figures available; full particulars on application.

6.—**CRICKLEWOOD.**—Main-road Good-class Cash Retail Business; luable Agencies; turnover about £40 per week under management; nt of shop about £100 per annum; good, clean, saleable stock; attractive tures; vendor would probably accept about £100 for the goodwill as the stock and fixtures at valuation, in all about £900–£1,000; a all sum down will be accepted and the remainder over a period.

7.—**ENFIELD.**—High-class Family Retail and Dispensing Business sale owing to retirement of vendor; Elizabeth Arden Agency; takings t year £2,280; exceptionally nice living accommodation; Maw's fixres; heavy stock; inclusive purchase price asked £1,500, or valuation ms entertained.

8.—**FULHAM.**—General Cash Retail Business; in present hands 10 ars; takings approximately £1,000 per aunum; net profit £288; sublets actically cover rental; inclusive purchase price asked £600.

9.—**SILVERTOWN.**—General Retail Business; increasing turnover, t year £1,250; net profit £350; comfortable living accommodation; lusive purchase price £750 or near offer; partnership entertained.

10.—**KEW (NEAR).**—Cash Retail Business offering scope by the roduction of credit accounts; modern Pharmacy, very well fitted and cked; new lease will be granted; price £1,050; full particulars upon plication.

11.—**GRAVESEND.**—Ill-health necessitates the early sale of a neral Retail Business with an increasing turnover; takings this year 750; stock £600–£700; fixtures £175; modern living accommodation; w lease; inclusive purchase price £1,000, or near offer.

12.—**ST. LEONARDS (RETIREMENT VACANCY).**—Good-class Business; takings approximately £1,850 per annum under management; net profit to managing proprietor over £450 per annum; excellent living accommodation; inclusive purchase price about £1,000; scope; inspected.

13.—**PLYMOUTH.**—Old-established Good-class Family Retail Business; returns exceed £1,300; good profits; large shop; well stocked; new lease will be granted; price £650.

14.—**BIRMINGHAM.**—Family Retail Business; established 12 years; takings last year £1,165; net profit £315; nice house; low rental; inclusive purchase price £650.

15.—**HULL.**—General Retail Business; takings exceed £1,400 per annum; good Panel connexion; very good stock; inclusive purchase price required £250, or near offer; bargain.

16.—**HIGH WYCOMBE.**—Family Retail Business; takings last year £1,162; net profit nearly £300; stock and fixtures £460; rent only £75 per annum; advantageous sublets; inclusive purchase price approximately £700 or valuation terms entertained.

17.—**BUCKS.**—Country Retail Business with Tobacco; takings average £900 per annum; rent only £40 per annum; inclusive purchase price required £200.

18.—**WESTCLIFF-ON-SEA.**—Very Old-established Business for disposal at present under lady management; takings exceed £1,500 per annum; rent only £110 per annum; stock and fixtures worth between £600 and £700; small premium of about £50 required for the goodwill, plus the stock and fixtures at valuation.

19.—**SOUTH WALES.**—Middle-class General Retail Business; turnover £2,800; excellent profits; valuable stock and fixtures; good living accommodation; leasehold premises; ground rent under £2 per annum; purchase price to include leasehold premises, goodwill, stock and fixtures £2,000.

20.—**PONTEFRACT (NEAR).**—Exceptional opportunity for young man; Middle-class Business; well-established; takings last year £1,863; stock and fixtures worth £450; rent £30 per annum; inclusive purchase price asked £500, or valuation terms entertained.

21.—**S. YORKS.**—General Retail Business; takings last year nearly £850; rent £70 per annum; stock and fixtures worth £500; inclusive purchase price £525; scope for increase.

22.—**WORCESTERSHIRE.**—Ill-health necessitates the immediate disposal of a small Retail Business with an increasing turnover; takings last year £600; profit 27 per cent.; stock £150; nice living accommodation; rent £39 per annum; inclusive purchase price £250, or near offer.

23.—**SOUTH AFRICA.**—General Retail Business with Fancy Goods; net profit nearly £450 per annum; stock £570; fixtures and fittings £110; price required for the goodwill £250; full particulars upon application.

24.—**LONDON, S.E.9.**—Middle- and Working-class Retail Business situate in excellent position in main road; takings approach £2,000 per annum; splendid living accommodation; stock and fixtures worth about £750; offers invited; retirement vacancy.

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Lancashire and District Representative: Mr. E. BROWN, 21 Davenport Road, Hazel Grove, Stockport. Telephone: Great Moor 2405

(C1) **LIVERPOOL.**—City business with steadily increasing turnover; returns for 1937, £2,510; this year is expected to reach £3,000; very reasonable net rental; excellent position, near to leading multiples; price £1,250, including stock £600; valuation terms if preferred; **part can remain.**

(C2) **EAST FINCHLEY (NEAR).**—Established main road business with living accommodation, at present sub-let; turnover for year ended December, 1937, £2,572; gross profit £962; stock estimated at £1,000, all of which is good; fixtures about £280; price all-at, for quick sale £1,530, or near offer, including only £250 for goodwill.

(C3) **LONDON, S.W.**—Exceptional opportunity for smart, energetic Chemist to purchase old-established business with excellent potentialities; present turnover upwards of £2,000 per annum, plus sub-post office, the income from which is approximately £350; good living accommodation; price all-at £1,300 or reasonably near offer; **a partnership arrangement would be considered as an alternative to an out and out sale.**

(C4) **STREATHAM (NEAR).**—Branch business, with no immediate opposition, situated in populous good-class area; turnover for 1937–38 £1,650; rent £100; excellent scope with personal attention; stock and fixtures estimated at £825; price £950 all-at; valuation terms if preferred.

(C5) **HASTINGS.**—Very old-established; turnover for last financial year, £1,520; net profit, £400; rent £85, including accommodation; quick sale desired and first reasonable offer accepted (stock and fixtures estimated at £650).

(C6) **BOURNEMOUTH.**—Attractive modern Pharmacy occupying main-road position, must be sold forthwith, and Owner will accept the sacrifice figure of £550 all-at for a quick transaction, which is necessary owing to death circumstances; excellent living accommodation; turnover upwards of £1,300 per annum, with scope for considerable expansion; stock estimated at £350 and the fixtures, when new, cost nearly £500; full particulars upon application.

(C7) **HARROW (DEATH VACANCY).**—High-class business with Arden, etc., agencies; turnover upwards of £2,200 per annum; net profit to owner-proprietor should approximate £400–£450; net rental £96 per annum; price asked comprises little more than value of stock and fixtures.

(C8) **UXBRIDGE (NEAR).**—Old-established family business situated in growing and improving district; turnover for 1937–38 financial year, £2,139; gross profit £804; rent £65; lease nearly 21 years to run; to an Owner-Proprietor the business would at present show a net profit of £500–£550 per annum; price approximately £1,500 all-at.

(C9) **KINGSTON-ON-THAMES.**—Very attractive and well-fitted Pharmacy, with good flat above, situated in semi-main shopping street; turnover for 1936–37, £2,339; now reduced, but the business can be quickly resuscitated with personal attention; quick sale desired and offers invited.

(C10) **BUCKS.**—Middle- and Working-class business with good D. and P.; turnover for 1936–37, £1,162; premises occupy corner position on main road; rent £75; no near opposition; goodwill and fixtures £450; stock at valuation (estimated at £260).

(C11) **FINCHLEY (NEAR).**—Good-class business established over 30 years; turnover approximately £2,700 per annum; gross profit about 41 per cent.; net rental £110 only; contemplated alterations in the near vicinity should benefit the business considerably when completed; genuine reason for selling; price £1,850 all-at.

(C12) **LONDON, NORTH.**—Good-class suburban business, with sub-post office; turnover upwards of £1,650 p.a., plus P.O. remuneration; net profit for last year £377; good scope; price all-at £1,200.

(C13) **CLAPHAM (NEAR).**—Attractive well fitted Pharmacy, with genuine scope for increase; turnover upwards of £1,500 per annum; gross profit about 35 per cent.; living accommodation, which has recently been redecorated; price £850, including stock (£450–£500), and fixtures (about £200); reasonable offer considered.

(C14) **STOKE NEWINGTON.**—Turnover, under management, approximately £1,600 per annum; good N.H.I., rapidly increasing; modern fitted shop, with living accommodation above; price £900, or nearest reasonable offer; **part might remain.**

(C15) **LONDON, N.W.**—Main-road business with living accommodation, at present sub-let; turnover upwards of £1,500 per annum, with good percentage profit; N.H.I. averages between 600 and 700 scripts per month; price £950 or near offer.

(C16) **ENFIELD (NEAR).**—Steadily increasing middle-class business; turnover (certified) for 1936–37, £1,937; gross profit £730; net £475; moderate living accommodation; rent £78; price £950 or near offer; property not modern, but as a profit-earner the business is above the average and is still increasing.

(C17) **FLEET STREET (NEAR).**—City Business with steadily increasing turnover, now at the rate of £40–£45 per week; no week-end duty; good scope; price £600 all-at, or reasonable offer; genuine reason for selling, which we can substantiate.

(C18) **ESSEX.**—Attractive modern Pharmacy, with exceptionally good potentialities; present returns small, but should increase tremendously during next two years; modern flat with all conveniences; price, value of stock and fixtures only; **immediate sale essential, and any offer will be considered.**

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2.—LANCS COAST.—Light Cash Retail, in good position; returns £1,850, at good profit; books audited; owner, leaving the retail, will accept simply valuation (about £650) for a quick sale.

3.—CHESHIRE.—Light Retail Business, in market town; returns £1,620, net profit £350; urgent private reasons necessitate early sale; price £700 or near offer.

4.—NORTH WALES.—Good-class Family Retail, with Optics; returns £1,385, net profit £395; best position; scope for increase; modern flat over. Price £950 or offer.

5.—HERTS.—Good-class Business in busy town; main road position; returns £1,400; scope for increase; modern Pharmacy, fully stocked; price £925 or near offer.

6.—GLOS (MARKET TOWN).—Well-established Light Retail; returns £1,100, under elderly owner; rent £60; good house and garden. Price £200, plus valuation of stock and fixtures.

7.—DAGENHAM (near).—Very profitable Cash Retail, with good panel; returns £1,900 under manager; scope for increase; good house, garden and garage. Price £800 or valuation terms.

8.—N.W. SUBURB.—High-class Retail and Dispensing Business; turnover about £3,000, scope for increase; main-road position; heavily stocked; price £1,750; references required.

9.—LONDON, N.1.—Light Cash Retail with good Panel; returns about £2,000, net profit £450; corner main-road position; good stock; price £950.

10.—STROUD GREEN.—Well-established Business with good Panel; returns over £1,600, net profit £350-£400; low rent; good house; price £750 or offer.

INTENDING VENDORS

desirous of selling without any publicity or advertising should correspond with us without delay; we have cash buyers for businesses in all parts, up to £3,000 cash, especially Midlands, South-West, Southern and Home Counties. No sale, no charge.

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BLACKBURN.—For Sale, a good Business, established over 50 years, on main road; good living accommodation; rent £65 a year; Kodak agency; good N.H.I.; business increasing; owner retiring. T. W. Livesey, 36 Grimsbaw Park, Blackburn, Lancs.

BLACKPOOL.—Old-established Business, central position, lock-up; Kodak Agency; great scope for Prescribing, Herbalist and Qualified Chemists; good profits; own lines; room for increase; price £700 or nearest; stock over £400; fullest details genuine buyers with necessary capital at interview only; owner leaving the trade. 30/9, Office of this Paper.

COUNTRY MARKET TOWN, MIDLANDS.—Chemist's Business with Grocery, Provisions, Wine and Spirits, Beer, Seeds attached; capable of considerable expansion; premises may be bought or lease arranged; very reasonable sum accepted for prompt sale; death vacancy. 30/14, Office of this Paper.

NORTH OF ENGLAND.—Well-established business for disposal for genuine reason; turnover approaching £1,500; prospects of steady increase. Full Wine Licence; price for quick sale, approximate value of stock and fixtures, £796. 29/8, Office of this Paper.

PETERBOROUGH.—Main road, Drug business for sale; Kodak Agency; takings last year £640; suitable Chemist; double modern-fronted lock-up shop; 8-year lease, option to purchase property, land behind suitable building; rent £30 11s. yearly; price £80. 30/7, Office of this Paper.

BUSINESS for Sale; attractive shop; unopposed position in residential district of East Coast resort; flat over and conveniences, etc.; low inclusive rent; moderate price accepted, around £185. 31/40, Office of this Paper.

CHANGE of policy necessitates quick disposal for cash several Chemists' shops, flats over if desired, with attractive leases, in Middlesex, Herts, Kent, Surrey, Essex, at prices representing less than half cost of high-class, strictly modern fronts and fittings. Particulars to seriously interested parties only. Apply by letter to A. E. Gray, M.P.S., 53 Woodstock Road, N.W.11.

£110, INCLUDING Excellent Stock and Fittings; bargain to Young Qualified Pharmacist; for quick sale; old-established Pharmacy, S.E.25; now under Unqualified management; no opposition; main road; large residential neighbourhood; Kodak and Selo Agency; rent only £46 per annum; lease 12 years; double-fronted shop, 8 rooms, bath, etc.; owner retiring (old age); no offers. 333/207, Office of this Paper.

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COMMODIOUS Shop Premises, situate prominent corner position; densely-populated district of Hampstead, adjoining Multiple Stores. Full particulars, apply:—

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TEL.: CITY 7068.

EDMONTON.—Shop to Let, suitable for Chemist or Ironmonger, in parade of shops opposite station, flat over (self-contained), now let at £52 per annum; rental £156 per annum, exclusive; will grant long lease. Apply, Owner, 38 Church Street, N.9.

CHEMIST NEEDED FOR ATTRACTIVE MODERN SHOP

with small flat above; well-populated growing district in SURREY; very moderate rent; period free; nice front provided, and interior fitted to tenant's design by owners. Genuine enquiries to 333/208, Office of this Paper.

SHOP and Upper Part to Let; entrance to large, good-class housing estate, select Surrey suburb; only 2 left; splendid opening for Chemist; rent only £150 per annum, including shop front. Full particulars and car to view, E. W. Perry & Daw, 7 & 8 Finsbury Square, E.C.2.

SHOP Premises in extensive working-class district, near Prescot, Lancs; excellent living accommodation; nearest Chemist 2 miles away.
£88 per annum clear; not less than 3 years' lease, with option to purchase or renew.
Apply: Edwin Cork, 33 Delph Lane, Whiston, Prescot.

WONDERFUL OPPORTUNITY FOR CHEMIST.—Parade in course of erection; busy area where there is undoubted scope; living accommodation over on two floors; rent only £175 per annum exclusive on lease. Apply immediately to Leslie Raymond, F.S.I., F.A.I., facing Tube Station, Edgware. 0115.

AGENCIES

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NORTHERN IRELAND.—Wanted, a reputable firm of Wholesale Chemists to act as Buying Agents for new remedy for Rheumatism, Gout, etc.; sole concession given; liberal discount and advantage of National Advertising throughout Great Britain. Reply in confidence to 333/205, Office of this Paper.

AGENTS wanted in all main towns, with good connexions among Chemists, retail and Wholesale, Hairdressers' Sundriesmen, Hairdressers' Shops and like, to carry new line in Shampoo, to be introduced September; commission basis; references. Apply, first instance, to 333/203, Office of this Paper.

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CORRESPONDENCE and Personal Tuition in Optics and Sight Testing.
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IF you think like I do, and I am a director of three Chemist companies, that this form of trading is best by far, particularly in the uncertain times we live in, drop me a line, mentioning size private company you might be interested in, and I will send you my free leaflet. Auditing for Chemists a speciality. Low fees.

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NAMES AND ADDRESSES

When sending advertisements for any of the columns of this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their **names** and **addresses**. It sometimes occurs that this rule is not adhered to and delay and disappointment ensue. Strict attention to this detail will be appreciated.

BUSINESS OPPORTUNITIES

PROPRIETARY Firm wish to sell out at 12 times total average annual turnover, or would consider engaging 50 representatives willing to invest £100 each; sell out price about £10,000; substantial gross profits and with new lines—a fortune. 26/9, Office of this Paper.

APPOINTMENTS

CITY OF BIRMINGHAM EDUCATION COMMITTEE

CENTRAL TECHNICAL COLLEGE, SUFFOLK STREET, BIRMINGHAM, 1

Principal: D. S. ANDERSON, Ph.D., B.Sc., A.R.T.C., M.I.Mech.E., M.I.A.E.

Department of Pharmacy and Biology

APPLICATIONS are invited for the post of Lecturer in the Department of Pharmacy and Biology. Applicants must be Pharmaceutical Chemists, and have additional training in Physiology and Microbiology. Duties will commence on January 3, 1939. Salary in accordance with the Burnham Scale for Teachers in Technical, etc., Schools, subject to any revision which may be made on the termination of the present award. Full particulars obtainable from the Principal on receipt of a stamped addressed envelope, to whom applications on the special form provided must be returned by September 20, 1938.

P. D. INNES, Chief Education Officer.

CITY OF BIRMINGHAM DUDLEY ROAD HOSPITAL

JUNIOR ASSISTANT DISPENSER (MALE)

Applications are invited from Registered Students of the Pharmaceutical Society for the above whole-time non-resident appointment.

The scale of salary will be £150, rising, subject to satisfactory service, to £170 per annum. Applicants should be 18 to 20 years of age. Preference will be given to candidates who have passed the Preliminary Scientific Examination.

The successful candidate will be required to pass an approved medical examination, to contribute to the Superannuation Scheme established under the Local Government and Other Officers' Superannuation Act, 1922, as amended by Section 82 of the Birmingham Corporation Act, 1935—Annuities for Widows—and to join the Birmingham Municipal Officers' Widows' and Orphans' Pensions Scheme.

The appointment will be terminable by one month's notice on either side.

Full particulars and form of application may be obtained from the Medical Superintendent, F. W. Ellis, M.D., F.R.C.S., to whom applications should be sent not later than September 22nd.

APPRENTICES

CORFE & SON, Dispensing Chemists, Maidstone, have a vacancy for an outdoor Apprentice with pay; no premium required; Matriculation or higher certificate necessary; thorough tuition in all branches. Apply to the Manager, Corfe & Son, Maidstone.

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6s. for 40 words or less; 1d. for every additional word, prepaid. (Box No., 1s. extra.)

BARNES.—Unqualified Junior Assistant required; good-class Dispensing and brisk Retail. Apply, stating age, height, experience and salary required to Feltwell & Son, 90 Church Road, Barnes, S.W.13.

BRIGHTON.—Lady Assistant required; all usual duties; one requiring permanency. Unqualified applicants considered if competent. 31/16, Office of this Paper.

ESSEX.—Unqualified Junior Assistant (Lady or Gentleman) required early October. State full particulars with salary required. 31/19, Office of this Paper.

LEEDS.—Qualified Chemist required to manage shop in suburb, ten minutes from centre of town; permanent and progressive position to suitable man. Apply, stating salary required, full particulars of experience, age, height, etc.; forward copies of references. 30/6, Office of this Paper.

LONDON.—Qualified Assistant, one accustomed to middle-class trade preferred. Give full particulars of experience, names of references, when disengaged, age and salary expected. Apply (letter only), "Chemist," 37 Syduer Road, London, N.16.

LONDON, N.12.—Vacancy occurs shortly for young Gentlemanly Unqualified Junior in busy Dispensing and Family business; permanency; sound training in Dispensing essential; ability to Dress Windows. Write, giving full particulars of experience, age, height, wage required and when disengaged, Dobson, 321 Ballards Lane, N.12.

NORTH KENT COAST.—Young married Pharmacist required as Manager of Seaside branch; living accommodation available. Write 334/209, Office of this Paper.

SOUTH COAST.—Assistant, Qualified or Unqualified, either sex; Family Dispensing business; permanency; good Window-dresser, Salesman and Dispenser. Apply, giving age, experience, salary required (live out), when free and references, 29/2, Office of this Paper.

WEST COUNTRY.—Junior Unqualified Assistant required for Pharmacy near Torquay; good Counter man; interested in Window-dressing; permanency. Write 334/210, Office of this Paper.

ASSISTANT, Unqualified, required, male or female; must be good Window-dresser, also knowledge of Pharmacy. Apply, Early Bunn, Ltd., 95 High Street, Chelmsford, Essex.

ASSISTANT wanted, October 3; young Unqualified male for Dispensing and Counter; no Sunday duties. Apply, stating age, height, experience and salary required, to Charlesworth, 185 Marlowes, Hemel Hempstead, Herts.

ELDERLY Qualified Chemist required shortly as Superintendent of small Retail Pharmacy a few miles from London; for supervision only, no actual work required; four-roomed flat rent free, and very nominal salary offered; old age or slight disability unimportant. 32/11, Office of this Paper.

JUNIOR Assistant for good-class business; must have bad good Dispensing experience and have passed the Preliminary Scientific. Apply, H. Meynell, Tenterden, Kent.

JUNIOR (male) for good-class Dispensing business; accurate Dispensing and knowledge of Window-dressing essential. Apply with full particulars and photo to Exors. T. Evans, 114 Upper Richmond Road, Putney, S.W.15.

JUNIOR or Improver (male) wanted end of September for Dispensing, Counter and General Pharmacy, with Photography. Please send full particulars, age, height, experience and salary required (enclose photo if possible) to G. B. Rose, Chemist, 33 Bullingdon Road, Oxford.

JUNIOR Unqualified Assistant (male preferred) required for good-class Dispensing business on or after September 24. Reply, stating experience, references and salary required, to H. Reynolds, M.P.S., 15 West Avenue, Worthing.

LADY Assistant required for high-class business; must have good Dispensing and Window-dressing experience; no Sunday duty. Apply, giving details of experience, salary, etc., to Mr. Price, J. Noble & Co., 34 Woodcote Road, Wallington, Surrey.

LADY, Qualified, required shortly for small country town; able to take charge and build up neglected business; comfortable post for keen capable person. State age, experience, salary required and references. 30/12, Office of this Paper.

LOVEITT & BONES, LTD., the leading Chemists, Coventry, require a Junior Unqualified Assistant; must be a competent Dispenser and courteous Counterman; the position is now vacant, and details of experience and salary required should be addressed to the Managing Director.

M.P.S.—Lady, required for a Departmental Store in the North, closing half-day Saturday. Apply, stating experience, salary required, and enclosing photograph (which will be returned). 334/211, Office of this Paper.

QUALIFIED Dispenser Book-keeper, with experience, required immediately by Doctor in South Middlesex. Apply, giving particulars of experience, age, references, and salary required, to 32/4, Office of this Paper.

QUALIFIED Man required as Assistant for brisk cash business in S.W. London; commence £4 10s. weekly; progressive post for suitable man. State age, height, details of experience and when at liberty. 31/37, Office of this Paper.

QUALIFIED Manager for small Shop just opening South Coast; must be reliable Dispenser and with ability to build business; living accommodation over shop. Write, stating age, experience and salary required. Applications not answered within seven days respectfully declined. 31/28, Office of this Paper.

QUALIFIED Manager required October 1 for shop in busy town near London; house attached; suit married man; moderate salary, but possibility of gradually purchasing business on profit-sharing basis. Applicants should send details of age, experience, etc., and must produce first-class testimonials. 31/38, Office of this Paper.

RELIABLE Junior Assistant required (Lady or Gentleman), 20-25, accustomed to quick Counter and N.H.I. Dispensing. Please give all particulars of experience, age, education, salary, etc., to W. A. Wood, Pharmaceutical Chemist, 351 High Street, West Bromwich.

SHORTLY, Unqualified, good all-round for Counter, Dispensing, Photographic and Window-dressing; competent and able to be left in charge; good-class London family business. Apply with copies of references, salary expected and when free. 31/45, Office of this Paper.

UNQUALIFIED Assistant for medium-class Retail and Dispensing business; reliable Dispenser, good at Counter and Display. Please state age, height, experience and salary required, with references (photo if possible), to L. A. James, 6 Grange Parade, Uxbridge Road, Hayes, Middlesex.

UNQUALIFIED Assistant (male, unmarried) required for a good-class business; commence September 26; must be of good appearance and address; quick, accurate Dispenser, neat writer. Please give full particulars re experience, age, height, references, wages required, to Nicoll, Chemist, High Street, Dorking, Surrey.

UNQUALIFIED Junior, male, one just completed apprenticeship not objected to, with knowledge of Window Display and Toilets; able to assist with Books and Dispensing; neat handwriter essential; progressive post. Full particulars. Applicants not answered 5 days respectfully declined. 31/46, Office of this Paper.

UNQUALIFIED Lady Assistant required; good Saleswoman, Window-dresser and capable Dispenser. State age, height, experience and salary required; no Sunday duty; references required. A. Grassick, 82 High Street, Hornsey, N.8.

PHOTOGRAPHS, TESTIMONIALS, &c.

When replying to advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. Many of these announcements produce an exceptionally large response and, as can be readily understood, the task of returning photographs, testimonials, &c., is one of some difficulty.

WANTED.—Capable Unqualified Assistant, male; must be used to good middle-class business, Dispensing and Photographic (no D. & P.); good Salesman and Window-dresser; no Sunday or half-day duty. Apply, giving full particulars, photograph, etc., (will be returned), Barnes, Cumbergate, Peterborough.

WANTED.—Energetic young Assistant (Unqualified); must be experienced, reliable Dispenser, with good general knowledge of Retail trade. State age, details of experience and salary required, with references, to Manager, Anderson & Virgo, 23 St. John's, Worcester.

WANTED, Lady Dispenser and Book-keeper at early date; Lincolnshire; doctor's practice; Hall qualification; experienced; outdoors. Apply, stating experience, salary required and enclosing copies recent references. 31/17, Office of this Paper.

YOUNG Chemist-Optician required. Apply immediately, giving details of age, experience and salary required, to Secretary, Peterborough Co-operative Society, Park Road, Peterborough.

VACANCIES FOR LOCUMS

QUALIFIED Lady Locum required for one week from either September 28 or later. Lady Chemists, Ltd., Daws Lane. Mill Hill 1366.

WANTED.—Unqualified Junior Locum for three weeks; please send usual particulars of experience and salary expected, with photo (returnable), Smith, Chemist, St. James, Northampton.

WHOLESALE

QUALIFY for PROMOTION!

When it comes to selecting for promotion, employers rightly attach great importance to a man having studied the theory of the work in which he is engaged. *A Diploma does count!*
If you have chosen Sales Management as a step in your career, you should realise the immense national importance of this profession and determine to win success by learning all about it.
The Incorporated Sales Managers' Association (the recognised Examining Body in Sales Management) has prepared a Syllabus of Subjects comprising :—INTERMEDIATE EXAM :—Book-keeping and Accounts, Commerce, Salesmanship, Marketing, Business Statistics, Sales Organisation. FINAL EXAM :—Market Research, Economics, Commercial Law, Export Practice, Advertising, Sales Management.
Enquire from your local Education Authority for particulars of Classes, or from the recognised Educational Correspondence Colleges.
The next I.S.M.A. Examinations will be held in June 1939 in London and certain provincial centres.
For Syllabus of Subjects and full information write to the General Secretary, Incorporated Sales Managers' Assn., Dept. L, 23 Bedford Square, London, W.C.1.

BLYTON, ASTLEY & CO., LTD., of Manchester, require the services of a Representative to cover London, Home Counties, East Coast and South Yorkshire. Replies, which will be treated in the strictest confidence, should state present occupation, age, remuneration required and any other relevant particulars.

EXPERIENCED Representative required for nationally-advertised Toilet Preparations; South Coast and South-West London districts. Write, stating previous experience and remuneration. 333/206, Office of this Paper.

OLD-ESTABLISHED Firm, with London depot, require a young Salesman to assist in office and outside. State experience, if London connexion, age and salary required. 333/204, Office of this Paper.

REPRESENTATIVE, on commission, carrying one or two other suitable houses, wanted by makers of Pastilles, etc., for Yorkshire. State full details and territory, 29/9, Office of this Paper.

REPRESENTATIVE required to carry on established connexion with the Wholesale and Manufacturing trade; only Representatives with experience in this work should apply (age 28-48). Write in first instance, giving full particulars, to CMH/GG, B.D.H., Ltd., Graham Street, London, N.1.

REPRESENTATIVES (part-time) required to work Chemist Sundries; good money can be earned by men with connexions in the following counties: Oxford, Bucks and Beds; Essex, Suffolk and Norfolk; Liverpool and Manchester, Northumberland and Durham; Northern Ireland. Write, 30/3, Office of this Paper.

GLAXO LABORATORIES, LTD.

SALES OFFICE ASSISTANT

APPLICATIONS are invited for the above position from Male Qualified Pharmacists, age not above 25; single.

The duties call for industrious and dependable business habits, a flexible mind, and ability to conduct correspondence. Previous sales office experience desirable but not imperative.

Applicants should submit, *by letter only*, details of education and business career, as well as the usual personal information, including age and height, and state salary expected, to:—

S.O.A., SALES DEPARTMENT, GLAXO LABORATORIES, LTD., GREENFORD, MIDDLESEX.

REQUIRED, commencing October, man or woman (not under 25) for training, view to taking charge of Bottle-filling, labelling and order assembling department of old-established London business; experienced high quality work preferably with chemicals or medicinals. State in detail past experience and wages required. 21/4, Office of this Paper.

SALES Representative required for disposal of Veterinary lines to farmers. Apply, 32/8, Office of this Paper.

TRAVELLER wanted to sell Fine Chemicals, Drugs and Essential Oils to Wholesale trade and large Manufacturers only, in the London district; must be reasonably young, agile, with a good knowledge of the trade; splendid opportunity for energetic and ambitious man. 333/202, Office of this Paper.

YOUNG Man offered position as Sales Manager and London Wholesalers' Representative under agreement by progressive established private company marketing own branded products, and Sales Agent for well-known firms; salary £250 and commission; investment required, £300 in shares (secured); exceptional prospects for right man. Write fully, 31/33, Office of this Paper.

COLONIAL, INDIAN AND FOREIGN

UNQUALIFIED Assistant (single), age 30-40, required for Union of South Africa; outward passage paid; no photographic or optical work; salary £20-£22 10s. per month. Apply by letter, enclosing recent photograph, to Export Department, The British Drug Houses, Ltd., London, N.1.

THE SUPPLY OF SUPPLEMENTS

On receipt of addressed Post Office Wrappers (not more than six at a time) stamped 1d. the Chemist and Druggist Supplement will be forwarded without cost.

LOOSE STAMPS WILL NOT BE ACCEPTED

If wrappers bear a halfpenny stamp only, Postal delivery may be delayed.

SITUATIONS WANTED

RETAIL (HOME)

2s. for 18 words or less ; 1d. for every additional word, prepaid. (Box No., 1s. extra.)

A PROGRESSIVE position required by Qualified Manager (40); S.W. London; excellent all-round experience and references; free one month. 31/49, Office of this Paper.

AS Qualified Manager, Assistant or Locum (33); tall, wide experience good-class Dispensing, Counter, Toilets, Photography, etc.; excellent long references; free September 10 as shop at present managing has been sold. West, 2 Southville Close, West Ewell, Surrey.

ASSISTANT, Unqualified (38), City and West End experience, seeks position Birmingham; keen, energetic. Williams, 2 Grosvenor Park, S.E.5.

ASSISTANT, Unqualified (30), 5 ft. 9 in.; all-round experience with good-class Chemists. Smith, 68 Rockingham Road, Kettering, Northants.

ASSISTANT (37), gentleman, Unqualified; competent; City, West End; experienced Dispenser; Windows and Counter; Locum or permanency; willing worker. 31/7, Office of this Paper.

ASSISTANT (31), Unqualified (R.C.); competent, trustworthy, London and Provincial experience; present post 5 years (managing); seeks permanency; irreproachable references; free September 17. J.M.J.H., 80 Redacre Road, Wylde Green, Birmingham.

DISPENSER-SECRETARY (Hall); seven years' excellent experience Panel and Private practices; London and districts; Typing, Surgical Dressings. Apply, 30/4, Office of this Paper.

EXPERIENCED and up-to-date Qualified, offers services in Managerial, Supervisory or Representative capacity; free early October. "Pharmacist," 118 Durham Road, Feltham, Mdx.

EXPERIENCED Assistant (29), Unqualified, seeks situation; thoroughly competent in all branches, including Photography and Veterinary work, some Optics; married. Cooper, Penshurst, Pevensey, Sussex.

EXPERIENCED Qualified Dispenser desires post with Doctor or Chemist. Miss K. Hamill, 3 Salisbury Street, N.W.8.

IN difficulty or emergency send for Baldwin, c/o 59 Heybridge Avenue, S.W.16; Unqualified; fully experienced; accustomed to management.

LADY, Qualified (29), seeks responsible position; keen interest in Retail Pharmacy; 5 years as Manager; Good Dispensing experience. 32/5, Office of this Paper.

LONDON.—Pharmacist (28), all-round experience, industrious, dependable, excellent Display, desires part-time or permanency; very well recommended. 31/43, Office of this Paper.

MANAGER, Qualified (38); good all-round experience; free end of month; interview on Sundays or Wednesdays, p.m.; London or Middlesex. 31/32, Office of this Paper.

MANAGER, Qualified (45), married, now on Locum work; free September 26, desires permanency; active and reliable. M.P.S., 33 Worley Road, St. Albans.

PRICE LISTS, TRADE CIRCULARS, SAMPLES, AND PRINTED MATTER

can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

ALL DRUG AND FINE CHEMICAL WORKERS
SHOULD JOIN AT ONCE
THE CHEMICAL WORKERS' UNION
Reg. T.U. No. 1696 – Founded 1912
BENEFITS: Trade Protection, Legal Aid, Unemployment Benefit, Free Use of Employment Bureau
WRITE FOR PARTICULARS: Arthur J. Gillian, Gen. Sec., 149 Newington Causeway, London, S.E.1

M.P.S., thoroughly experienced and well recommended, both in the West End and suburbs, requires position as Manager or Assistant; fluent German; first-class references available; now free. 81 Chapel Street, N.1. Tel.: TER. 6516.

M.P.S. (26), tall, good all-round experience, seeks new post late October; present post 3 years as branch manager. 31/20, Office of this Paper.

M.P.S. (34), married, at present Pharmacist in small company, desires responsible position in Retail or Hospital; all-round London experience; hard worker, loyal and honest, with good appearance and personality; interview by arrangement. P.C.B. 294/8, Office of this Paper.

PHARMACIST desires Managership in high-class Pharmacy; well experienced Dispensing, high-class Toilets, Photographic. "Chemist," 11 Northbrook Road, S.E.13.

PHARMACIST, free afternoons and evenings; moderate terms. Phone: Bay 1653.

PHARMACIST (45), married, tall; desires Managership London; staff control. 31/26, Office of this Paper.

QUALIFIED Lady, experienced; Manchester, Liverpool or near. 31/42, Office of this Paper.

QUALIFIED Lady (27), seeks permanency; W. or S.W. London preferred; all-round experience; free one month. 31/14, Office of this Paper.

QUALIFIED Manager, married (under 30), requires situation in good-class Pharmacy, present employer having sold business; experienced all branches; highly recommended; free October 1. Adcock, Broadway Pharmacy, Didcot, Berks.

QUALIFIED requires position with Chemist doing Horticultural business; expert knowledge Plant Pathology and Fertilisers; experienced, keen. 31/27, Office of this Paper.

QUALIFIED, seeks permanency, reliable, experienced as Manager and Relief Manager in London; now doing Locum; free September 26. Chemist, 17 London Road, High Wycombe, Bucks.

QUALIFIED (25), seeks part-time duties in London; two or three evenings or afternoons weekly. 31/1, Office of this Paper.

QUALIFIED (28), tall, reliable, good references, Central London experience, desires position in London. 28/2, Office of this Paper.

QUALIFIED (34), single, requires change; 8 years managing; all-round experience; excellent references; permanency; London or Suburbs. 32/10, Office of this Paper.

THOROUGHLY experienced, 12 years' Toilet and Fancy Goods Assistant, seeks position London or Midlands. Victoria Stern, 17 Victoria Road, Bude, Cornwall.

UNQUALIFIED Lady Junior (24), 4½ years' experience, desires permanency; Sussex, Surrey or London. Costella, 15 Greenfield Road, Eastbourne, Sussex.

UNQUALIFIED married gentleman, experienced, competent, desires permanency, Assistant, Manager Drug Stores or Clerical work; Wales preferably; excellent references. 4/7, Office of this Paper.

UNQUALIFIED (26), desires permanency, London or N.E. Counties; London and provincial private and Store experience; experienced Counter, Dispensing, Window-dressing, Photographic and Surgical. P.C.B. 294/24, Office of this Paper.

UNQUALIFIED (32), tall, exemplary character, seeks new post; experienced, General Retail, Photographic, Surgical Appliance fitting. 31/15, Office of this Paper.

YOUNG LADY requires situation in good class Pharmacy; excellent Dispensing and Counter experience; well recommended; free when new position found. 30/5, Office of this Paper.

YOUNG Manufacturing Chemist and Dispenser, Unqualified, requires part-time employment, N.W.1 district; excellent references; free September 19. R. D. Catlin, 25 Clayton Waye, Cowley, Middlesex.

LOCUMS SEEKING ENGAGEMENTS

CHEMIST, Locum or permanency, experienced; recommended; disengaged September 26; London or Provinces. Chemist, 176 Long Lane, Finchley, London, N.3.

LADY (Hall), age 33, requires Locum for 2 or 3 weeks; all-round experience, quick Dispenser; free September 19; any district. "Dispenser," 153 Wakehurst Road, London, S.W.11.

LOCUM, Qualified, reliable, good references; disengaged September 19; London or Provinces. Hoskins, c/o Lindsey & Co., Chemists, 17 Leather Lane, Holborn, London, E.C.1.

M.P.S. (32), Locum or permanency; reliable; excellent all-round experience; first-class references; free October 10. "Chemist," 2 Riggindale Road, Streatham (phone 2398).

WHOLESALE

ADVERTISER seeks situation; first-class experience of Compounding and Formulating all types of Cosmetics and Toilet Preparations. Favell, 7 Queen's Crescent, N.W.5.

ADVERTISER, with sound knowledge of Retail Pharmacy and Pharmacists; 15 years' Retail experience as Assistant and Manager (age 32); desires position as outside Representative to reputable Wholesale House; one that gives scope for initiative and enterprise; own car. 31/55, Office of this Paper.

ADVERTISER (34), with sound office experience, including Staff Control, Pricing, Costing, Correspondence, Price Lists, etc., is open to any responsible position in London or South; good references. 31/12, Office of this Paper.

ARRESTED!—(Yes, but only your attention, I hope!!) Aged 25, I require a permanent position on the Sales or Office Staff of a company of repute; good education and address; experience includes representation of two well-known Perfumery Houses; unimpeachable references, fidelity bond and car available; temporarily residing Cardiff but ready to go anywhere for small salary and congenial post; will any company accord me an opportunity, which I am genuinely sincere in my desire to obtain, of establishing myself in a permanent career? Full particulars from 29/3, Office of this Paper.

ASSISTANT, Unqualified (30), last 5 years Druce, Oxford; experienced Salesman, Dispenser, Buyer; desires change; Wholesale or Retail; exceptional references. Penrose, 70 London Road, Headington, Oxford.

EXPERIENCED Representative desires change; thorough knowledge of Drug Trade; car driver; moderate remuneration for position with prospects. P.C.B. 294/21, Office of this Paper.

LIVE Representative, strongly established London connexion, open to Represent well-known House; salary, commission and expenses; or take over connexion, expenses and commission; excellent credentials and selling records. P.C.B. 294/20, Office of this Paper.

LONDON or South. Qualified Manager (26) offers services to Manufacturing or Wholesale House requiring keen worker with ideas and initiative; 10 years' Retail experience; knowledge of Physiology, Therapeutics, Commercial Practice. Please write for full particulars. 31/34, Office of this Paper.

PHARMACIST (28), car-owner, seeks salaried position as Medical or Pharmaceutical Representative with reputable firm; conscientious, well educated, energetic. 24/14, Office of this Paper.

CLEAR OUT—your Old or Damaged Stock of Photo Goods.
Why keep them any longer? Turn them into CASH.
I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers. Cards (any sizes). Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.
S. E. HACKETT, 23 July Road, Liverpool

PHARMACIST (25), well educated, now in Retail, desires position with Manufacturer; would take reasonable salary to commence; good references. 31/44, Office of this Paper.

REPRESENTATIVE, young, capable and conscientious, Registered Pharmacist, desires change and offers his services in Lancashire; Representative, Retail and Hospital experience; car owner. 31/21, Office of this Paper.

YOUNG Man (28), capable and keen; 7 years' experience wholesale drug and allied trades, desires position as whole-time Representative in Northern Ireland for progressive manufacturing or wholesale house; excellent references. 15/4, Office of this Paper.

FOR SALE

6s. for 36 words or less; 1d. for every additional word, prepaid. (Box No., 1s. extra.)

SMALL Cash Register, "National" make; owner no longer needs; condition as new; snip. Write, W. Keith, 14 Jubilee Road, Perivale.

MISCELLANEOUS

10s. for 60 words or less; 1s. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

ARE YOU TIRED OF POORLY PAID ROUTINE WORK? If so, why not be a Salesman? We are regularly introducing our Trained Students to SALARIED POSTS as Outdoor Salesmen. You can qualify for this well-paid progressive work by spare-time home study, after which we will introduce you to SALARIED POSTS. Write for Free Copy of 32-page book, "Salesmanship," to THE WALLACE ATTWOOD COLLEGE, LTD. (Dept. 84), Victoria House, Southampton Row, London, W.C.1.

IDEAL CHEMIST SHOP FIXTURES and Fittings, New, Second-hand and Shop-soiled, to be selected from our varied stock, at advantageous prices. Carboys, Shop Rounds, Cash Registers, Tills, Safes, Dispensing and Personal Weighing Machines. Courteous attention will be afforded any enquiry, large or small. Your inspection is cordially invited. Send your requirements to RUDDUCK & CO., 219 Old Street, London, E.C.1.

SECONDHAND FITTINGS.—Complete set of mahogany fittings including Shop Rounds, Mortars and Carboys. All at one quarter to-day's price. Can be seen at, or full particulars from PHILIP JOSEPHS & SONS, LTD., 90/92 St. John Street, Clerkenwell, E.C.1. Phone: Clerkenwell 4111/2. "Pharmacy Fitters for over a Century."

£?—COMPLETE CHEMIST FITTINGS at any price you wish to pay. We have erected in our Showrooms a Complete Chemist's Shop with Metal Shop Front, Window Backs, Correct Window Lighting, Signs and Modern Interior Fittings. Apply for Lists, D. MATTHEWS & SON, LTD., "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.

EXCHANGE COLUMN

2d. per word, minimum 2s. 6d. (Box No., 1s. extra.)

WANTED

CASH Register, brass model might do if working well; send details and price to P.C.B. 294/11, Office of this Paper.

BEECHAMS PILLS

INCREASE OF CAPITAL APPROVED

MR. PHILIP E. HILL'S SPEECH

A separate meeting of the deferred shareholders of Beechams Pills Ltd. was held on Wednesday, September 7th, at the Hotel Victoria, Northumberland Avenue, W.C., to consider a resolution increasing the capital of the company by the creation of 3,600,000 deferred shares of 5s. each; capitalising £600,000 standing to the credit of general reserve to be distributed as fully-paid deferred shares of 5s. each to the existing deferred shareholders; sub-dividing each 5s. deferred share into two deferred shares of 2s. 6d. each; and altering the articles of association so as to maintain the existing balance of voting power between the three classes of shares.

Mr. Philip E. Hill (chairman of the company) presided.

The Secretary (Mr. B. L. Hobrow, A.C.A.) having read the notice convening the meeting.

The Chairman said: Ladies and gentlemen, since we last met my co-directors and I have evolved the scheme to which I referred at our annual meeting, for making the deferred shares of the company a more marketable unit at a price within the reach of all classes of our customers and the general public. I wrote to you on August 15th giving full particulars as to how this was to be effected, and, judging from the numerous letters I have received from shareholders and others, and from the comments of the financial Press, the scheme appears to be generally acceptable.

PURCHASE OF MACLEANS LTD.

You will also have noticed from my letter that we have purchased the whole of the ordinary share capital of Macleans Ltd., the well-known manufacturers of Maclean Stomach Powder, Fynnon Salts, Macleans Peroxide Tooth Paste, and a large number of other pharmaceutical and branded products. I consider this acquisition as one of the most important made by this company, not only from the point of view of the dividends we shall receive from Beecham Maclean Holdings, Ltd., the company formed by Beechams Pills Ltd. to hold these shares, but from the savings in expenditure which should result from the acquisition and the benefit of the pooling of the management experience of this highly successful business.

You will have seen from the notices sent you that the balance of voting power of the three classes of shareholders in the company has been maintained. Trading conditions continue to be satisfactory, and, as you are aware, we have just paid the same interim dividend as last year on the increased capital. Upon the proposals of the directors receiving your assent today, it is proposed to make an issue of 2,400,000 deferred shares of 2s. 6d. each, on attractive terms, almost immediately. Preferential consideration in allotment will be given to holders of shares of all classes in the company and its subsidiaries.

INTERESTING DEVELOPMENTS

During the past seven years your company has shown an expansion of business and profits, and there appears to be no reason why this progress should not continue. At the moment we have negotiations in progress which may shortly lead to interesting developments. The prospectus, when published, will give all the necessary information to enable shareholders to form their own views with regard to the attractiveness of the proposals.

The chairman concluded by moving the resolution, which was seconded by Mr. J. Stanley Holmes, M.P. (managing director), and carried unanimously.

At a subsequent extraordinary general meeting of the company the proposals were also approved.

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Monsanto Sodium Salicylate B.P.

MONSANTO CHEMICALS LIMITED
VICTORIA STATION HOUSE, LONDON, S.W.1
KING'S HOUSE, KING STREET WEST, MANCHESTER
CANADA: 378, ST. PAUL STREET W., MONTREAL, QUE.

Made from our own raw materials at our works in Ruabon, N. Wales, where the most rigid quality control is maintained.